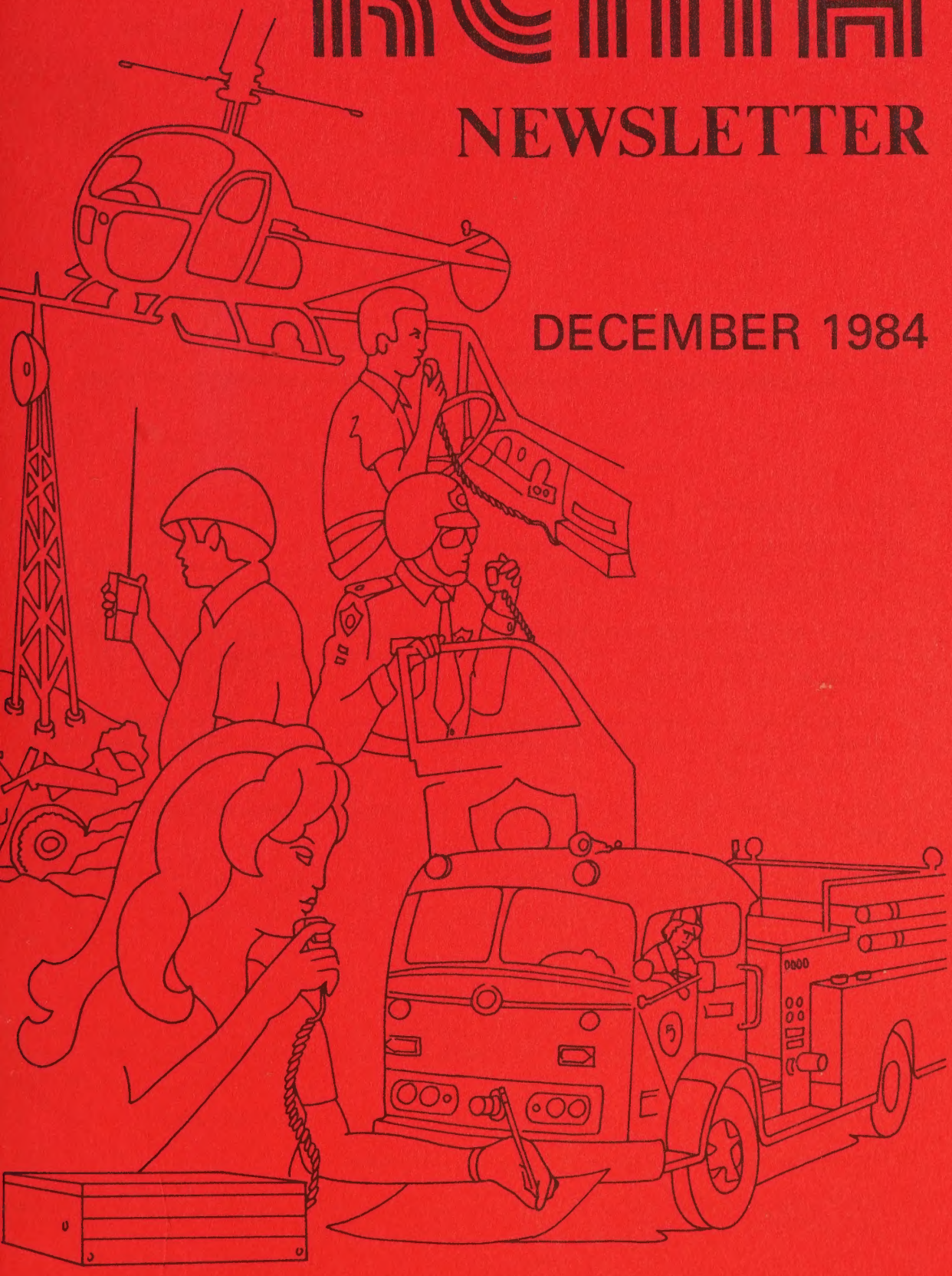
RCMA

NEWSLETTER

DECEMBER 1984



FIRST NATIONAL AND INTERNATIONAL ORGANIZATION
OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

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RCMA REPRESENTATIVES TO THE ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

Jerry Short (CA-OR-002)

FOR YOUR INFORMATION:

1. All club business, unless otherwise noted, must be addressed to R.C.M.A. General Manager, P.O. Box 542, Silverado, CA 92676. This includes matters that relate to renewals, changes of address, newsletter delivery problems, joining the club, etc.

2. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropriate, send input to RCMA, 1 West Potomac, Williamsport, MD 21795.

3. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA General Manager, P.O. Box 542, Silverado, CA 92676.

4. Please include your RCMA membership number with all correspondence to newsletter editors or club headquarters.

5. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.

6. Please write on only one side of the paper.

7. Please don't combine in one letter several items that should go to different addresses.

8. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.

9. Your RCMA membership number and expiration date appear on your newsletter mailing label.

10. You may join or renew your membership for ONLY one year at a time.

11. RCMA accepts paid advertising. For information on advertising rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P.O. Box 542, Silverado, CA 92676.

RCMA NEWSLETTER
Issue 106 December 1984
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RCMA, P.O. Box 4563, Anaheim, CA 92803

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ATTENTION -

TO ALL RCMA MEMBERS AND PROSPECTIVE MEMBERS -

PLEASE ADDRESS ALL CORRESPONDENCE (INQUIRIES ABOUT MEMBERSHIP, RENEWALS, ADDRESS CHANGES, DELIVERY OR RENEWAL PROBLEMS) TO:

CAROL RUTH
RCMA GENERAL MANAGER
P.O. BOX 542
SILVERADO, CA 92676

CORRESPONDENCE SENT TO RCMA'S ANAHEIM POST OFFICE BOX WILL STILL BE ANSWERED, BUT THERE WILL BE A 4 - 6 WEEK DELAY.

The RCMA Newsletter is published monthly by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, P.O. Box 4563, Anaheim, CA 92803. Subscription rate/membership fee is $16.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico--$18.50; Europe--$20.00, South Pacific and Asia--$21.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted © . Reproduction of any material in this newsletter is prohibited without prior written consent.

RCMA

ooo Calendar ooo

Send notices of upcoming events for the Calendar section to:
John Clark, RCMA, P.O. Box 4653, Anaheim, CA 92803.
Please send notices well in advance of the Newsletter deadline.

R.C.M.A. Greater L.A. Area Chapter

Contact : Eric J. Christensen (CA-LA-045)
P.O. Box 3962 Santa Fe Springs, CA 90670-1962

Meeting Location: Mercury Savings & Loan, Valley View and Lincoln
Buena Park, CA, 2nd floor(elevator in rear)
Unless otherwise noted meetings are on the 4th
Friday of the month and start at 8:00 PM

November 16 FRIDAY Note this is the 3RD Friday of the Month.

TOUR - Orange County Fire Department Station 91 Dispatch Center.
180 S. Water Street, Orange, CA (cross street Almond) 8:00 PM

December 28 FRIDAY -- No meeting

January 25 FRIDAY Special Sharing Session
8:00 PM Mercury Savings & Loan

R.C.M.A. Chicago

Contact Edward Robert Sirovy IL-004 312 969 2856
311 S. Williams Street, Westmont, Il 60559

Meetings: NANCINI'S Resturant 5555 St Charles Road, Berkeley, Il
two blocks east of St Charles Road exit from Eisenhouer
Expressway Extention I-290 (phone 312 544 7277)

Saturday	January	19, 1985	1:00 PM
Saturday	March	09, 1985	1:00 PM
Saturday	April	20, 1985	1:00 PM
Saturday	June	08, 1985	1:00 PM
Saturday	August	03, 1985	1:00 PM
Saturday	September	21, 1985	1:00 PM
Saturday	November	16, 1985	1:00 PM

Visitors are welcome but please confirm the date in advance.

A SASE on file assures notification of tours and other item which
may be scheduled on short notice.

R.C.M.A. Philadelphia
Contact: Gerald M. Schoaf, Floyd Schoenberg, C. Willard Load
PA-036 PA-076 PA-164
P.O. Box 213, Upper Derby, PA 19082 (215) 356-1982

Meeting the first Monday of the month, 7:30 PM at

Saint James Church Next to "The Grange"
Corner of Myrtle Ave & Warwick Road
Haverford, PA 19083

Talk In On: CB Channel 9 GMRS 467/462.675 Hams 147.66/.06

Calendar continued

R.C.M.A. for D.C., MD, VA, & DE

Contact: Capitol Hill Monitors % Alan Henney (MD 069)
6912 Prince Georges Ave, Takoma Park, MD 20912

R.C.M.A. Minneapolis-St. Paul Area

Contact: Chuck Steier MN-008 (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

A SASE on file assures notification of chapter activities (tours, gatherings, etc) non members are welcome to attend.

All Ohio Scanner Club

David B. Marshall OH 146 President
50 Villa Road, Springfield, OH 45503

Austin Area Radio Listeners Meeting

Meeting every 3rd Tuesday 7 PM Austin Public Library 4th floor room B. For more information, contact Richard Quintanilla TX 043 Austin Radio Club, P.O. box 5053, Austin Tx 78763

June 19, 1984	Oct 16, 1984
July 17, 1984	Nov 20, 1984
Aug 21, 1984	Dec 18, 1984
Sept 18, 1984	

Southern New England Scanners Club

Contact Robert Murphy SNEC President 401-353-0208
P.O. Box 1591, Pawtucket, RI 02862

NEED BACK ISSUES OF THE RCMA NEWSLETTER?

Lots (Months/Year)	No. of Issues	Price
Sept 75 - June/July 76 (No Oct or Nov published)	7	$2.00
August - Dec 76 (No Oct published)	4	$3.00
Jan - June 77	6	$4.00
July - Dec 77	6	$4.00
Jan - June 78	6	$5.00
July - Dec 78	6	$5.00
Jan - June 79	6	$6.00
July - Dec 79	6	$6.00

1980-83 issues are available at $1.50 per copy.

Order Total	Include This Amount of Postage
$ 1.50 - $ 5	$1
$ 5.50 - $10	$2
$10.50 - $15	$3
$15.50 - $25	$4
$25.50 - $35	$5
Over $35	$6

Send your request & check/ M.O. (payable to RCMA) to Secretary Bill Ell, 2831 Hermanos St., Pasadena, CA 91107

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs send a self-addressed, stamped business size envelope with your request to the address below.

For an annual subscription to the ANARC Newsletter, send $5 to:
Joe Barr, 1500 Bunbury Drive, Whittier, CA 90601. ($8 overseas subscription.)

NATIONAL RADIO CLUB is celebrating their 50th anniversary. CONTRATULATIONS!

Central Maryland Dx Association meets on the 2nd Monday of each month. for information contact Tony Kobylski (301) 563 0039

FLORIDA DXERS INVITED to send their name, address, and phone number to David Sharp, 17602 Meadowbridge, Lutz, FL 33549, for details on a DX outing. Or call from 0200 to 0400 GMT at (813) 949-4847 no collect calls

ELECTRONIC EQUIPMENT BANK 516 Mill St, N.E. Vienna, VA 22180 has issued their 1984 (?) price list on shortwave equipment.

RADIO NEDERLAND has published their updated "Receiver Shopping List". The list is free. Send request by airmail to Jonathan Marks, English Section, Radio Netherlands, P.O. Box 222, 1200 JG Hilversum, Holland

PROGRAMMERS GUIDE one of the best news publications for DXers is published by Miller Publishing, 424 West Jefferson, Media PA 19063. For a sample copy send them a .37 cents SASE. You will be happy with the results.

DAVILYN CORPORATION 13406 Saticoy St, North Hollywood, CA 91605, has a new 56 page catalog free on request. They specialize in electron tubes, transformers, relays and switches.

GILFER SHORTWAVE P.O. box 239, 52 Park Ave, Park Ridge, N.J. 07657 has there new catalog out

RADIO WEST 3417 Purer Road, Escondido, CA 92025 is still running their "Garage Sales". It is worth it to get on their mailing list.

THOUGHT waves

Ginny Slick, RCMA Assistant Editor, 1 West Potomic, Williamsport, MD 21795

Season's Greetings to all the membership. Whatever you most wish for Christmas, I hope that it comes true. Those of us involved in getting out the Newsletter are wishing for an editor to come forth for the Shortwave Column. I can't believe that there are no prospects out there. If you'd like to be our favorite Christmas present, type a letter to me telling why you'd like to edit the shortwave column and a little bit about how you'd go about it. We think that our editor needs to have an active interest in the subject and a good shortwave set.

While we anxiously await a new SW editor, we are at the same time exceedingly grateful to the new people who have come aboard in the past few months. Each time I open the Newsletter, I find it more and more professional looking;yet the mail I receive happily confirms my belief that most editors are personally involved in this endeavor. In this day and age, it is difficult to find progress and caring sharing the same bill. Maybe the

reason is because we aren't profit making. Each of us want the same things. Editors, members, readers, and our super,special contributors; we're all amateurs working toward a single goal: a monthly summary of things we've learned and want to share with others. There is an old saying that if you want something done correctly, ask the busiest person you know to do it, and it will get done. I believe it! Some----no, MOST of our editors prove it.

As you turn to your favorite column this month, look carefully at the names of the contributors. Some of them appear over and over again. They have been giving us their knowledge for years, spending time searching for answers, compiling them, writing them up, and sending them in at their own expense. Many of them could be editors but for an inability to type or spell or whatever. I wish there were a way to reward these people; perhaps a 'Contributor of the Year' award with the most valuable member receiving his subscription free the next year. It is just amazing and heart-warming that these people respnd without any other reward than our gratitude. May they find something special in their sock this holiday!

I can't close without making mention of what is to me a mind-boggling possibility. I received my October Newsletter yesterday, and looked at the brand new Computer Corner Column. In the next-to-last paragraph, Bob writes that if there are enough members with modems, he will put an Electronic Mailbox on line so that members can send contributions directly to his computer. I thought of that, and I remembered the first RCMA Newsletter, and I wondered if Iden Rogers, Jerry Short, John Clark and our other founders were thinking along with me: We've come a long, long way! MERRY CHRISTMAS!!!!

Write Soon,

To the Editor:

With regard to a Newsletter name change; I thought that was all resolved long ago. See Newsletter issues 11/79, p 7; 12/79, and /80,p2. It has been called 'Newsletter' since it got a name in April of 1978. Let's leave well enough alone.

Sincerely,
Edward Robert Sirovy (IL-00-)

To the Editor:

I really enjoyed the 100th RCMA Newsletter. I really got a lot out of it. It was interesting to look back and see how the club got started.

I have been trying to find out who the other five members in Solano County are. I have put a request into the Contact/Info column, but I didn't receive a reply.

I do have one friend who lives in the same city as I do and is a scanner hobbyist also. We get on the telephone and share information about scanners and frequencies. His name is Ron Miller and he is blind. He can't read the frequency when he does a search, but he has a really keen sense of hearing and can identify the frequency use better than I can. So he helps me and I help him! When he does a search and finds an active frequency, he calls me and I run the same search. When I find the frequency , I call him and tell him the numbers.

I really wish that I could get to know more members in Northern California. That's why I support the idea of a yearly membership list, so that we can find other members in our area.

Happy Monitoring,
Joe Velasquez (CA-SO-006)

Thought Waves continued

To RCMA Members:

I tried Bob McGovern's C.P Comm. Aircraft Directory for California. It is very good. There are seven pages and I received it in five days. I hope that he does counties!

Charlie (CA-RI-016)

BELOW 30 MHz

The following was contributed by Geoff Halligey, ENG-005. Thank you, Geoff, for preparing the material.

Editor

BELOW 30 MHz

IN-FLIGHT COMMUNICATIONS

A full list of frequencies has now been received from both Stockholm, Sweden, and Berne, Switzerland, Radios for communication with aircraft on a charge basis. Phone patches, weather, medical advice and telex links are all available for 24 hours daily on all frequencies, USB, or as shown:

Callsign: Stockholm Radio

5541	Short range day, long range night
8930	Medium range day, long range night
11222	Medium to long range, secondary freq
11345	Medium to long range
13342	Medium to long range
17916	Long range, day
23210	Long range, day

Callsign: Berna Radio

3010	On request
4654	Night and short range
6643	Preferred night freq
10069	European range 24 hrs, worldwide night
13205	General use
18023	Long range
21988	Middle East and Africa, 0400 - 2200
23285	Lomg range, 0400 - 2200

WEATHER REPORTS

It is always fascinating for us in the more northern regions to read of the weather at the other end of the world. Typhoons in the Yellow Sea and storms off New Zealand's coasts are about as remote as you can get from our cool green pastures.

Our chief guide for these plain language English CW broadcasts is the Admiralty List of Radio Stations (ALRS). From Wellington in New Zealand we hear ZLX22 on 11130 kHz between 0800 and 1000 gmt. Other listed frequencies and times are:

ZLZ20	5915	
ZLZ22	7600	0200, 0805, 0845, 0920
ZLX37	14850	2005, 2045 and 2120 gmt
ZLX31	19488	

Another recently heard station is NRV, Guam, in the Mariana Is. on the unlisted frequency 18322 at 1300 gmt. This is well received in the U.K. The broadcast is usually signed NRV/NPO (San Miguel in the Phillipines). Listed freqs and broadcast times are:

NRV	8150	NPO	10040.5	
	12743		12867	0700, 1300, 1700
	17146		15925	and 2000 gmt

KLINGENFUSS EXPOSED

Members should be wary of ordering the 'General Frequency and Call Sign List' published by Jeorg Klingenfuss of Tuebingen in W. Germany.

This list comprises two main sections, one in frequency order, the other by callsigns.

Recently, a reference was made in the callsign section to 9HA, Luqa Air, Malta, for which four frequencies are given. On cross-referencing to the frequency section of the book, not one of these four was listed.

A cross-check was therefore made of the last seven pages of the call sign section, over 1000 entries, and it was found that 300 of them (approx 27%) did not appear in the frequency section.

In his preamble to the book Klingenfuss criticizes the content of 'other authors' frequency lists and continues 'the compiling... has been made with the help of a computer controlled data handling and word processor system'.

Sounds impressive, but judging by results, his system is not working very well.

Doubtless all this explains why Klingenfuss has, for example, a total of only 73 entries under 11 MHz for all types of emission. In contrast, Ferrell lists 248 CW/USB stations (5th Edn. CFL) plus 297 RTTY stations (2nd Edn. RTTY Guide) - 545 stations in all.

Whether Klingenfuss has improved his 'system' in later editions of his 'General Frequency List' is not known, but it is not proposed to risk good money in finding out.

OLIVER PERRY FERRELL

Some RCMA members may not already know that Oliver P. Ferrell ('Perry') was killed in an automobile accident last April.

Perry was known to many radio enthusiasts throughout the world from his widely acclaimed 'Confidential Frequency Lists' published by Gilfer Associates Inc., a joint venture with his wife, to whom every sympathy is extended.

His untimely death leaves a vacuum in the field of radio, but it is understood that his wife is to continue the business and, with some outside help, has just published the 6th Edn. of the CFL. With the constant changes taking place in the radio spectrum it is hoped that this will not be the last, indeed that the CFL will continue for many years to come.

Business, Etc.

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufactureers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to:

Brandt Niemuth, P.O. Box 541, Rosemont, IL 60018

Welcome to another chapter in the ongoing saga of the "Business" world. We hope that the sun is smiling upon everybody.
Thuoght for the month: Typo gremlins: "They were walking in the park

Business, Etc. continued
when grabbed her by the gazebo."

On to the goodies for this month. For the Chicago, I have the following confirmations:

462.175	KTB 476 Central National Bank	Chicago
462.65	KAB2251 Hammond Yellow Coach	Hammond IN
464.3	KNJF601 China Farm	Chicago

From Steve (NH-026) comes the following for the Newmarket NH area:

37.74	Northern Utilities (Allied Gas Co)
151.985	New England Telephone Co (Dispatched from Dover NH)
159.34	New England Telephone Co (mobiles)

NH Public Service Co:

158.25	Dispatch (Local maint)
158.13	Mobiles
153.515	Dispatch (Regional control)
153.455	Mobiles

37.58	Exeter-Hampton Electric

152.945	Continental Cable - Portsmouth
151.895	Community Cable - Laconia
461.675	Warner Cable - Nashua
464.3	Exeter Cable - Exeter- Seabrook
464.6	Exeter Cable - Bristol
463.875	White Mountain Cable
464.1	N E Cable
464.375	N E Cable
464.95	N E Cable
157.68	Rockingham Security
151.685	NH Security Gaurd Co
152.42	Newington Mall
464.225	Mall of NH
154.54	Pats Peak
157.56	Waterville Valley
155.205	King Ridge
154.085	Gunstock
157.56	Brickyard Mt Inn
154.6	Bensons Animal Farm
42.96	Manchester Red Cross
151.625	Sandes Assoc
153.365	Sandes Assoc
462.325	Digital Co
465.975	Honeywell Alarms
43.74	Hudson Bus
43.76	Hudson Bus
151.655	Jan Car Co

35.86	Seaward Construction
35.98	Seaward Construction
43.1	Griffen Construction
43.06	Pike Industries
43.14	Iafolla Construction
35.78	Lakes Region Const.
151.925	Coca Cola - Laconia
155.055	Plymouth St College
151.745	Phillips-Exeter Academy
153.23	Knight Radio WGIR WHEB

Comex Paging 43.22 152.24
Comex UHF Radiotelephone:

454.075	Laconia
454.1	Nashua Kneene NH Kittery Me
454.2	Concord
454.25	Manchester
454.275	Mt Ascutney, Vt
454.3	Manchester

Seabrook Station Nuclear Plant:

451.175	Security	451.95	363.975
461.6375	Emergency	464.325	

Until next month's chapter, Happy monitoring.

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor radio listening and questions to:

Rob Berezowski, 211 Costigan Bay, Saskatoon, Saskatchewan, S7J 3P4 Canada

Hello gang, and welcome to the Canada column for December. Rumour has it that Hell Week is this week at the U of S. The engineers are putting on a good show. They managed to hang a car from a bridge, a couple of the Agros were kidnapped, and of course we had the infamous Godiva ride. This year we had a Lord Godiva as well as a Lady Godiva. With so much going on, it's sometimes hard to concentrate on studying.

I have the impression that winter is coming. Perhaps it was the half inch of snow we got last week. Anyway I thought I would start off this month with some frequencies that promise to be active during the winter months.

Edmonton Oilers Hockey Club		458.3625
Winnipeg Jets Hockey Club(8 Hockey Ventures Ltd)		457.525
		457.575
		467.775
		467.850
Quebec Nordiqués Hockey Club		418.575
Ontario Ministry of Transportation & Communications		
District 1	Chatham	
2	London	
3	Stratford	
4	Hamilton	
5	Owen Sound	
6	Downsview	
7	Port Hope	
8	Kingston	
9	Ottawa	
10	Bancroft	
11	Huntsville	
13	North Bay	
14	New Liskerd	
16	Cochrane	
17	Sudbury	
18	Sault Ste Marie	
19	Thunder Bay	
20	Kenora	
	MTC Channels	143.730 / 148.720in
		143.805 / 148.825in
		143.850 / 148.840in
		143.865 / 148.705in
		143.880 / 148.885in
		143.940 / 148.870in
		143.955 / 148.915in
		143.970 / 148.930in
Saskatchewan Dept of Highways	Ch 1	166.830 / 167.400in
	Ch 2	166.860 / 167.430in
	Ch 3	166.890 / 167.850in
		168.030
Alberta Ministry of Transportation		
District 1	Medicine Hat	
2	Lethbridge	
3	Hanna	
4	Calgary	
5	Stettler	
6	Red Deer	
7	Edmonton	
8	Edson	
9	Athabasca	
10	Vermillion	
11	Lac La Biche	
12	High Prairie	
13	Grand Prairie	
14	Peace River	
15	High Level	
	Ch 1	139.320 / 141.840in
	2	139.350 / 141.870in
	3	139.380 / 141.900in
	4	139.410 / 141.930in
	5	139.440 / 141.960in
	6	139.470 / 141.990in
	Simplex	139.230
BC Ministry of Highways	Highway Main.	143.295 / 148.285in
	" "	143.415 / 148.585in
	" "	143.445 / 148.795in
	" "	143.895 / 148.855in
	Emergency packsets	151.430 F2
	" "	152.210 F1
	Bridge/Tunnel	153.740 / 154.620in

I hope those keep your scanner hopping. If anyone has any corrections or additions, don't hesitate to send them in. I can't think of any other frequencies that are particularly busy during the winter. Thanks go to Doug(CAN-041) among others.

I have another contribution from an anonymous member. He passes on the following unit numbering information for BC Forest Service. He says that the format is number/letter/number, eg. 2S5. The first number stands for the office, the second letter for the duty, and the last number is the unit number.

Office numbers:		Duty:	
2	Maple Ridge	B	Admin/Support
6	Duncan	E	?
7	Port Alberni	P	?
8	Campbell River	R	?
24	Vancouver	S	Fire Fighting
		T	(Airborne units)?
		W	?

He also adds to the frequency lists that have appeared in the column in the past. He says that Fl 163.830 is called the Gold channel. This may be the wrong time of year to ask, but if anyone has anything to add to the above unit information, please send it in. I also would not give up on listening to the Forest Service during the winter. You never know what may be happening.

Our friend also passes on that the BC Emergency Health Services channel 142.605/138.615in mentioned in a previous column is being used by ALS (Advanced Life Support) ambulances to consult with the hospital doctors. I know that some of these communications can be very interesting.

Mr X says that-143.535/148.975in is used by the Coast Guard for relaying weather information and messages from lighthouses to the Coast Guard HQ. The weather information is then broadcast on 161.650 to the general public. Thanks again Mr X, hope to hear from you soon.

On the subject of BC, I heard through the grapevine that the Vancouver International Airport Fire Dept is on 460.1625/465.1625in. I do not know who to give credit to, so for whoever it was that found it, thank you.

To finish off this month, here is another installment from Guy (CAN-031). Another big thank you to you, Guy. I have some school work that I must be getting to. The work load so far is not too bad, but I know that it will get much worse. Anyone who has been to college knows about due dates for assignments. No matter how much time they give you for the assignment, you always <u>start</u> working on it the night before. (It adds excitement) See you all next month.

From GUY (CAN 031)

<u>RCMP Frequencies in use in the province of MANITOBA</u>

49.120	Flin Flon
138.045 / 142.035	Springwells, Gordon
138.350 / 142.550	Notre Dame de Lourdes
138.350 / 142.880	Gordon
138.710 / 143.720	Norgate
142.035 / 138.045	Springwells, Gordon
142.550 / 149.860	Poplar Point
142.880 / 138.350	Poplar Point
142.880 / 149.860	McConnell
143.205 / 148.015	Sandridge, Manitonas Hill
143.205 / 148.285	Max Lake
143.205 / 148.360	Spearhill
143.325 / 148.765	Springwells
143.535 / 148.165	Whitemouth
143.565 / 148.405	Sandridge, Manitonas Hill
143.715 / 148.360	Sandilands
143.720 / 138.710	Dauphin
143.775 / 148.075	Spearhill
143.775 / 148.285	Whitemouth
143.775 / 148.765	Morris
148.015 / 143.205	Gordon, Baldy Mountain
148.075 / 143.775	Fisher Branch

Canada continued

148.165 / 143.535	Gordon
148.285 / 143.205	Brandon
148.285 / 143.775	Moth Lake
148.360 / 143.205	Tan Creek
148.360 / 143.715	Gordon
148.405 / 143.565	Fisher Branch, Rice Creek
148.765 / 143.325	Manigotagan
148.765 / 143.775	Notre Dame de Lourdes
149.860 / 142.550	Notre Dame de Lourdes
149.860 / 142.880	Brandon, Gordon
154.800 / 155.430	Winnipeg, Man - mobile
154.800 / 155.550	Carman, Beausejour, Selkirk, Steinbach, Reston, Winnipeg, Portage la Prairie, Morris, Brandon, Headingley, Lundar, Arborg, Fisher Branch, Stonewall, Sprague, Winnipeg Beach, St Pierre, Falcon Beach, Camp Shilo, Oakbank, Souris, Carberry, Teulon, Whitemouth, Virden, Ashern, Gimli
154.830 / 155.640	Shoal Lake, Dauphin, Grandview, Steinbach, Emerson, Portage la Prairie, Gypsumville, Rossburn, Sprague, Headingley, Fisher Branch, Stonewall, Pinawa, Winnipegosis, St Pierre, Falcon Beach, Elphinstone, Crystal City, Hamiota, Deloraine, Powerview, Boissevin, Lac du Bonnet, Minnedosa, Russell, Killarney, Wasagaming, Ashern, Melita, Ethelbert
154.890 / 155.580	Carman, Beausejour, Gladstone, Berens River, Selkirk, Grand Marais, Gypsumville, Neepawa, Manitou, Lundar, Arborg, Morden, Winnipeg Beach, Freherne, Ste Rose du Lac, Amaranth, Pinawa, Falcon Beach, Altona, Crystal City, Oakbank, Swan River, Teulon, Whitemouth, McCreary, Gimli
154.950	Fort Churchill, Flin Flon, Churchill, Thompson, Man - mobile
154.950 / 155.670	Leaf Rapids, Cranberry Portage, Lynn Lake, Gillam
154.950 / 155.700	Gladstone, Dauphin, Grandview, Grand Marais, The Pas, Portage la Prairie, Emerson, Morris, Neepawa, Manitou, Morden, Winnipegosis, Ste Rose du Lac, Treherne, Amaranth, Altona, Powerview, Swan River, Carberry, Lac du Bonnet, Roblin, McCreary, Ethelbert
155.040	Selkirk, Steibach, Portage la Prairie
155.040 / 155.640	Winnipeg, Swan River, Roblin, Man - mobile
155.070	Winnipeg
155.130	Man - mobile
155.130 / 156.030	Selkirk, Oakbank, Winnipeg, Man - mobile
155.310	Carman, Beausejour, Gladstone, Shoal Lake, Emerson, Grand Marais, Selkirk, Steinbach, Winnipeg, Morris, Gypsumville, Neepawa, Lundar, Portage la Prairie, Brandon, Manitou, Rossburn, Headingley, Arborg, Morden, Fisher Branch, Stonewall, Winnipeg Beach, Sprague, Treherne, Amaranth, St Pierre, Falcon Beach, Altona, Reston, Crystal City, Elphinstone, Oakbank, Souris, Hamiota, Deloraine, Powerview, Teulon, Boissevin, Lac du Bonnet, Minnedosa, Carberry, Whitemouth, Virden, Killarney, Wasagaming, Russell, Ashern, Melita, Gimli
155.460	Shoal Lake, Dauphin, Grandview, The Pas, Winnipeg, Portage la Prairie, Brandon, Rossburn, Winnipegosis, Ste Rose du Lac, Pinawa, Reston, Elphinstone, Souris, Hamiota, Deloraine, Virden, Boissevin, Minnedosa, Roblin, Killarney, Melita, Wasagaming, McCreary, Russell, Ethelbert
155.550 / 154.800	Fisher Branch, Moth Lake, Brandon, Gordon
155.580 / 154.890	Sandridge, Manitonas Hill, Tan Creek, Broomhill, Norgate, Notre Dame de Lourdes, Whitemouth
155.640 / 154.830	Dauphin, Sandilands, McConnell, Spearhill, Max Lake, Bernic Lake, Manigotagan, Poplar Point
155.640 / 155.040	Dauphin
155.640	All Cda - mobile

Canada continued

	Rossburn, Headingley, Lundar, Arborg, Churchill, Fisher Branch, Melbourne, Notre Dame de Lourdes, Manitou, Gypsumville, Emerson, Brandon, Morris, Neepawa, Fort Churchill, Carman, Beausejour, Gladstone, Dauphin, Shoal Lake, Flin Flon, Berens River, The Pas, Selkirk, Leaf Rapids, Cranberry Portage, Grandview, Steinbach, Grand Marais, Portage la Prairie, Winnipeg, Morden, Cross Lake, Stonewall, Winnipeg Beach, Sprague, Thompson, Winnipegosis, Treherne, Ste Rose du Lac, Amaranth, Pinawa, St Pierre, Falcon Beach, Altona, Camp Shilo, Reston, Crystal City, Elphinstone, Oakbank, Souris, Norway House, Hamiota, Gillam, Deloraine, Powerview, Lynn Lake, Lac du Bonnet, Wabowden, Swan River, Gimli, Boissevin, Teulon, Virden, Minnedosa, Carberry, Whitemouth, Roblin, Killarney, Ethelbert, Wasagaming, McCreary, Russell, Ashern, Melita, All Cda - mobile
155.670 / 154.950	Norgate, Fisher Branch, Rice Creek, Sandridge, Manitonas Hill
155.700 / 154.950	Rice Creek, Springwells, Morris, Melbourne, Baldy Mountain
156.030 / 155.130	Winnipeg, Wattsview, Gordon, Minnedosa
156.240 / 154.040	Winnipeg
413.0625	Winnipeg, Man - mobile
413.2875	Winnipeg, Man - mobile
453.6375	Man - mobile
453.7875	Man - mobile
460.1000 / 465.1125	Dauphin
463.4625 / 468.4625	Wattsview
463.9625 / 468.9625	Minnedosa
465.1125 / 465.1000	Baldy Mountain
468.4625 / 463.4625	McConnell
468.9625 / 463.9625	McConnell
456.8375	All Cda - mobile

Editor: Bob Cheek
22320 SW 63rd Avenue, Boca Raton, FL 33428

Hello and welcome to the Computer Corner! Well, it seems that the Holidays are upon us, and I know that you all are suffering the same lack of time that I am! I want to wish all the members of RCMA the very best holiday wishes, and for a safe and prosperous new year!

I am very pleased with the response to the survey. The letters have been coming in at a steady rate, and I have had 40 responses here in the last two weeks! I want to thank all the members that took the time to fill out the survey, and write

the letters, and provide the data. If you have a computer, and have not filled out the survey and returned it to me, please do so, as the information will be very useful in my efforts to bring you a interesting column each month.

The survey has been somewhat of a surprize to me. I had an idea that the most popular computer was going to be the IBM PC and it's clones. That just goes to show what I know, the most popular single computer from the responses so far is the Commodore 64. However, there were more people using Radio Shack's various models than the Commodores.

The breakdown of computer types was as follows:

Radio Shack	31%
Commodore	23%
Atari	10%
Heath	10%
PC (*)	10%
TI	5%
Timex	2.6%

* - Includes IBM, Compaq, Franklin and other PC compatables

The survey also revealed that 84% of the respondents have disk drives, 65% have modems of either 300 or 1200 baud type, and most of those who did not have a modem where planning the purchase of one in the near future. That will certainly help the cause of the Bulletin Board for the RCMA.

60% of the respondents indicated that they primarily use Basic as their programming language. Other languages mentioned were Assembly (for the particular machine) and APL. It is also apparent that not all users are writing software, but over 50% indicated that they did write some programs.

One of the respondents did not own a computer, but filled out the survey anyway. He was concerned that the RCMA Newsletter would follow the way of some other publications, and become a computer magazine. Several of the computer owners expressed the same concern. The Computer Corner is intended to provide an exchange of information about the use of computers in the monitoring hobby. You don't have to worry, cause if it isn't scanner or monitoring related, you won't see it here!

Many of you who responded to the survey indicated that you had frequency list applications for your computer that you had written in Basic. How about running off a listing, and writing down a few words on how to use it, and sending it to me for publication here in the Computer Corner. I would like to limit custom programs to Basic, as it seems to be the language of choice by the RCMA computer users. It will also be easier to covert a program written in Basic to another computer since most of the implementations of Basic on todays home computers are so similar.

Also, if you have a specific application of a popular data base program for scanning, such as the Profile III+ that I use here, write it down and send it in. Please remember that I am only the editor, and the RCMA members are the real stars here!

Well that about does it for this month, and for this year! Make a New Years resolution to send in your scanner related computer programs and share them with the other RCMA members. Have a safe holiday season, easy on the eggnog if you are driving, and see you next time!

contact/info wanted

This column has two purposes: to help members contact each other, and to help members obtain information directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interests, this is the perfect place for you to make known your interests. Remember – those who respond will do so directly, so be sure to provide your phone number, the best time to be called, or your address. Write to:
Amy Polivka, 12906 Ohio Circle, Omaha, NE 68164

INFO WANTED: Anyone with info on radio freq's and equipment used by the "Research Ship Calypso" by you know who? I have the radios to hear them but could use the freq's if they can be given out, plus common times of check-ins/check-outs with such stations around the world using the ATS Satellites. If the ATS Satellites are used, which ones and the "output" freq's used, will be most helpful. Those with the info who are a part of the Calypso team(s) and are in the hobby, I would enjoy corresponding with if possible. (8-31-84)
LARRY A. SMITH (MI-001), 1223 Vinsetta Blvd., Royal Oak, MI 48067
(313) 542-4751 OR (517) 856-2830 evenings!!

STATE POLICE LISTENERS EVERYWHERE: I'm looking for good info on state police depts. and highway patrols everywhere. In return, I offer 4 pages plus 3 maps of Virginia State Police info. Statewide info matching frequencies with areas and usage is preferred, but good info for just your area is fine. This and Richmond area info is available for trade with anyone including other Virginia members. I am also interested in any statewide or regional mutual aid frequencies for police, fire, rescue, or whatever you might have to offer. (9-24-84)
ALLEN COLE (VA-???), P.O. Box 11282, Richmond, VA 23230-1282

FCC TOPICS

George DuBois, Editor

FCC news and information of interest relating to two-way communications. Send comments and questions to:
George DuBois, 10048 NE Campaign, Portland, OR 97220

Part 90 (Private Land Mobile Services) was amended recently to eliminate a number of unnecessary or outdated provisions. One revision will no longer require Public Safety licensees to notify the Commission of the identifiers used in lieu of the assigned call letters when, at a minimum, the identifier used contains the licensee name. Another amendment eliminates the provision allowing area-wide communications plans to be submitted with applications in the Special Emergency Radio Service (for the Med-net channels). A propo-sal to eliminate the specific "itinerant" frequencies in the Business and Special Industrial Radio services and allow itinerant use on any frequency upon a showing of need was not adopted, due to opposition from user groups. The strict limits on power and directivity for control stations (base stations that transmit to the repeat-er) were eliminated, since control stations must operate on a secondary, non-interference basis to mobile stations, anyway. And numerous typographical errors were corrected in this amendment, includ-ing all references in many services to Developmental operation being governed by Subpart P. There is no Subpart P, there hasn't been since 1980, and even though the errors have been there for years, some genius must have just noticed that it's supposed to be Subpart Q.

The FCC has eliminated the Effective Radiated Power limits for T-band (470-512 mHz) stations located on certain high-elevation

sites in the Los Angeles area. The limits required reduced output power in proportion to antenna height. Their purpose was to permit possible reuse of the frequencies in other areas of the region. The problem is that most licensees in the Los Angeles area are using the mountain-top sites which surround the urban area. Use of the same channel by other licensees is therefore effectively precluded and the reduced power limits restrict coverage of the very area the repeaters must serve. Since they obviously serve no usefull purpose, these reduced power limits are thus being eliminated.

Part 15 was amended to allow operation of radio frequency perimeter detection security systems in the 40.66 to 40.70 mHz band. This band is presently available for Industrial, Scientific and Medical use and on a secondary basis for wildlife tracking and for data telemetry. R.F. detection systems (which detect intrusion by changes in a radiated R.F. field) are allowed in other bands, such as 902-928 mHz and 10.5 gHz. But allowing their use at VHF frequencies will permit coverage of larger areas, such as industrial yards, power plants, etc., through the use of buried radiating coaxial cable. The Commission approved use of perimeter protection systems in the 40.68 mHz band with a maximum radiated power of 50 μv. per meter. They will shortly release a proposal to allow detection systems to operate with higher power in additional bands, such as the 54 to 88 mHz TV Broadcast band, and with suspended radiating wires. I imagine the TV broadcasters will be thrilled with that idea.

The FCC has reallocated on a shared basis the band from 2285 to 2290 mHz for Space Operations and Space Research by Private users. This is to allow authorized non-government entities access to the NASA Tracking and Data Relay Satellite System (TDRSS). The TDRSS system operates in the 2200 to 2290 mHz band, which is presently allocated exclusively to Government Space Operations (on a co-equal basis with Fixed and Mobile use). The 5 mHz portion reallocated for Private use is all that is needed to permit licensing for use of feeder links to TDRSS.

The American Radio Relay League has requested that the FCC declare federal preemptive authority over local zoning laws that restrict Amateur radio station antenna height. Such a ruling would preempt local ordinances that prohibit or restrict outside antennas in residential areas, particularly those, the ARRL asks, that "preclude or significantly inhibit effective, reliable Amateur communications and are not necessary to ensure safety". The Commission is seeking comment from the public on the matter.

Geostar Corp. has petitioned the Commission to allocate spectrum for a satellite system that would combine both positioning and message transfer. The system would be for aircraft navigation, but also for vehicular or portable locating and data transmission. Geostar proposes use of the 1610 to 1626.5 mHz band for user uplinks. This band is already available for Aeronautical Radionavigation, but is presently unused. The downlinks would be in the 2450-2500 mHz band, which is available for radiolocation on a secondary basis, but is mainly used for ISM (mainly microwave ovens), Broadcast Auxiliary (ENG), and Fixed use. These latter services might have to be relocated, according to the petition. The two bands needed for the links to Geostar's control center are at 5.1 and 6.4 gHz. Part of the 5.0 to 5.25 gHz band is supposed to be used for the FAAs Microwave Landing System (MLS), but interference from satellites to ground-based MLS systems would be minimal. The 6.4-7.1 gHz band is used for various Fixed services and for Earth-to-Space Fixed service on a secondary basis. Such use would only affect Fixed users in the immediate area of the uplink transmitter site. The main difficulty is the reallocation of spectrum at 2.4 gHz for user downlinks. Existing users would have to be reassigned. And broadcasters have already voiced objections, since they use both the 2.4 and 6.5 gHz bands for ENG and Studio-to-Transmitter links.

Those of you wishing to own a halfway current edition of Part 90 and try to order last year's edition of Title 47, Code of Federal Regulations will be pleased to know that it is out of print. It will probably not be reprinted, since the Oct, 1984 edition will be printed shortly. (Watch this space.) Your only alternative is to order the microfiche edition (stock number 022-003-98554-9) at $2.25.

FCC Topics continued

(See June column.) Not only that, the FCC says that the proposed revision of the looseleaf format Rules, supposed to be out by now, will not be, due to budget constraints. If I were you, I'd just hold off at this point until the updated CFR editions are released.

FEDERAL GOV'T and ☆ MILITARY ☆

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to:
Dennis Biagioli, 607 W. Pleasant Ave., Villa Park, IL 60181

Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

Hi! Can you believe it, another year gone already? When you're feeling totally bored, why not sit down with your frequency notes from that wonderful vacation you took, or that air show you saw, or that military base open house you visited, and send along what you found to share with those who have been providing you with reading material up to now. It will make you feel better.

Among the items in my mail box this month was a copy of the SHORTWAVE DIRECTORY, 2nd Edition, by Bob Grove. If you are into Federal or military monitoring in the HF bands, this will probably be of help to you. It is a loose leaf format, prepunched 3-holes.

Springfield, Illinois, Capitol Airport is the home on a great air show, The Springfield Air Rendezvous. The two-day affair (usually the second weekend in September) features great flying demonstrations, both military and civilian, and good static displays. The Air Force C-5A "Galaxy" displayed was from Altus Air Force Base, Oklahoma. We were allowed to photograph the flight deck. The flip-down frequency card listed the following:

CHA	FREQ	STATION
1	289.4	GND CONT
2	255.6	TWR
3	324.3	APP CONT
4	290.9	DEP CONT
5	259.3	APP CONT
6	348.3	APP CONT
7	395.9	GCA
8	391.9	GCA
9	338.6	GCA
10	319.4	ACP
11	349.4	ACP
12	372.5	PTD
13	344.6	PMSV
14	239.8	LTS METRO
15	273.5	ATIS
16	290.2	FT WORTH
17	319.8	FT WORTH
18	291.7	FT WORTH
19	375.7	TR 312
20	255.4	FSS

VHF FREQUENCIES	
126.2	ALTUS TWR
125.1	APP CONT
123.6	HOBART FSS
126.3	CSM APP
119.6	CSM TWR
124.8	AMA APPRO

I received this anonymous sheet from the Denver, Colorado, area. If the member did not mean to be totally unknown, I'll credit him (or her) at a later date if they will just let me know.

BUCKLEY AIR NATIONAL GUARD BASE

Aurora, Colorado

41.75	Army National Guard Helicopter Operations (Callsign "OUTLAW")
148.035	Civil Engineers Net (Callsign "INDIA")
148.215	Buckley Control Tower Ramp Control Net
148.325	Commander's Emergency Response Net (repeater output)
148.450	Transient Aircraft Maintenance & Refueling (Callsign "REX")
148.515	A-7D Aircraft Maintenance Net (Callsign "BLUE")
148.625	Buckley Security Police (These are Department of Defense Police throughout the main-base area) (Callsign "CASTLE")
149.205	Base Operations and Transportation Net (Callsign "TANGO")
149.250	Commander's Emergency Response Net (repeater input)
150.225	Buckley Security Police (These are USAF Security Police from Space Command, assigned to the Aerospace Data Facility on Buckley)
163.5125	Hospital/Ambulance Net (Callsign "MEDIC")
173.075	Fire Department/Crash Net (Callsign "ECHO")

Air-To-Ground (AM) Frequencies

121.0	Buckley Tower
121.6	Buckley Ground
142.4	Army National Guard Helicopter Operations
230.8	Army National Guard Helicopter Operations
268.1	Tactical Operations
275.8	Buckley Ground
287.3	Bomb Range
289.6	Buckley Tower

The mail has been very light lately, so we'll close this month with another segment to continue the Air Force frequency list begun several months ago.

AIR FORCE 140 - 142 MHZ

LOCATION	ST.	FREQ.
ALASKA	AK	140.3750
ALASKA	AK	140.4250
ALASKA	AK	141.5500
ALASKA	AK	141.6250
ALASKA	AK	141.7250
ALASKA	AK	141.8000
ALTUS AFB	OK	140.0000
ANDERSEN AFB	GUM	140.4000
ANDREWS AFB	MD	140.4000
ANDREWS AFB	MD	141.5500
ANDREWS AFB	MD	141.7000
ARLINGTON	VA	140.3750
BARKSDALE AFB	LA	140.0000
BARKSDALE AFB	LA	140.4000
BERGSTROM AFB	TX	141.8000
BLACKSTN	VA	141.8000
CAPE CANAVERAL	FL	140.1700

Federal Govt/Military continued

LOCATION	ST.	FREQ.
CAPE CANAVERAL	FL	140.4000
CAPE CANAVERAL	FL	141.3000
CARSWELL AFB	TX	140.0000
CHARLESTON AFB	SC	141.7000
D HANIS	TX	141.8000
DAVIS-MONTHAN AFB	AZ	141.5750
DAVIS-MONTHAN AFB	AZ	141.6250
DAVIS-MONTHAN AFB	AZ	141.7500
DAVIS-MONTHAN AFB	AZ	141.9000
DAVIS-MONTHAN AFB	AZ	141.9250
DNNLYFLD	AL	140.0000
DOVER AFB	DE	140.0000
DVSMNTOS	AZ	140.4000
DYESS AFB	TX	141.8000
EDWARDS AFB	CA	141.5500
EDWARDS AFB	CA	141.6250
EDWARDS AFB	CA	141.7250
EDWARDS AFB	CA	141.7250
ELGIN AFB	FL	140.0000
ELGIN AFB	FL	140.4000
ELGIN AFB	FL	141.2000
ELGIN AFB	FL	141.5500
ELGIN AFB	FL	141.5750
ELGIN AFB	FL	141.6000
ELGIN AFB	FL	141.6750
ELGIN AFB	FL	141.7000
ELGIN AFB	FL	141.7750
ELGIN AFB	FL	141.9000
ELGIN AFB	FL	141.9250
FOUR L	WA	141.8000
FT. CARSON	CO	141.8000
FT. DRUM	NY	141.5500
FT. DRUM	NY	141.6750
FT. HOOD	TX	141.8000
FT. LEWIS	WA	141.8000
FT. ORD	CA	141.8000
FT. RILEY	KS	141.8000
FT. STEWART	GA	141.8000
GEN. B. MITCHELL	WI	141.8000
GREATER PEORIA ARPT	IL	141.5500
GRIFFISS AFB	NY	141.5500
GRIFFISS AFB	NY	141.6000
HANCOCK FIELD	NY	141.5750
HANCOCK FIELD	NY	141.7000
HAWAII	HI	141.6000
HICKAM AFB	HI	141.5250
HICKAM AFB	HI	141.8000
HNTLGTML	CA	141.7500
HOLLOMAN AFB	NM	140.3750
HOLLOMAN AFB	NM	141.5500
HOLLOMAN AFB	NM	141.6000
HOLLOMAN AFB	NM	141.7750
HOLLOMAN AFB	NM	141.9250
INDINSPR	NV	141.6400
JCKSFLTS	NV	141.5750
JCKSFLTS	NV	141.7750
KANAWHA	WV	141.8000
KEESLER AFB	NY	141.6000
KENNESAW	GA	140.4000
KENNESAW	GA	141.6000
KIRTLAND AFB	NM	140.0000
KIRTLAND AFB	NM	141.7500
KIRTLAND AFB	NM	141.8000
KIRTLAND AFB	NM	141.9150
LANGLEY AFB	VA	141.5250
LANGLEY AFB	VA	141.6000
LANGLEY AFB	VA	141.9250
LAWSNFLD	GA	141.8000
LITTLE ROCK AFB	AR	140.4000

Federal Govt/Military continued

LOCATION	ST.	FREQ.
LITTLE ROCK AFB	AR	141.5750
LITTLE ROCK AFB	AR	141.6250
LITTLE ROCK AFB	AR	141.7000
LITTLE ROCK AFB	AR	141.8000
LITTLE ROCK AFB	AR	141.9000
LITTLE ROCK AFB	AR	141.9250
LUKE AFB	AZ	141.5250
MACDILL AFB	FL	141.8000
MAJORS FIELD	TX	141.3000
MCCONNELL AFB	KS	140.4000
MCCONNELL AFB	KS	141.5750
MCCONNELL AFB	KS	141.7500
MCCONNELL AFB	KS	141.9000
MCCONNELL AFB	KS	141.9250
MCCONNELL KS	KS	141.6250
MCGUIRE AFB	NJ	141.5750
MCGUIRE AFB	NJ	141.7000
MINNEAPOLIS-ST. PAUL	MN	141.8000
MO TRURO	MA	141.5750
MTLEMMON	AZ	140.4000
MTLEMMON	AZ	141.9000
MYRTLE BEACH AFB	SC	141.6000
NELLIS AFB	NV	140.0000
NELLIS AFB	NV	140.6500
NELLIS AFB	NV	141.3000
NELLIS AFB	NV	141.5500
NELLIS AFB	NV	141.6250
NELLIS AFB	NV	141.7250
NELLIS AFB	NV	141.8000
NELLIS AFB	NV	141.9000
NEVADA	NV	141.9250
NO TRURO	MA	141.7000
NOSMTFLD	RI	141.8000
NTS	NV	141.7500
ORANGE	CT	141.8000
PACIFIC OCEAN	PAC	141.8000
PAPAGO	AZ	141.7500
PATRICK AFB	FL	141.6000
PATRICK AFB	FL	141.7000
PEASE AFB	NH	140.0000
PETERSON AFB	CO	140.4000
PLATTSBURGH AFB	NY	140.0000
POPE AFB	NC	140.0000
POPE AFB	NC	140.4000
POPE AFB	NC	141.5500
POPE AFB	NC	141.6250
POPE AFB	NC	141.8000
RICKENBACKER ANGB	OH	140.4250
RICKENBACKER ANGB	OH	141.8000
ROSAMOND	CA	141.8000
SALT LAKE CITY	UT	140.4000
SALT LAKE CITY	UT	141.7000
SAVANNAH	GA	140.4250
SAVANNAH	GA	141.5750
SEATTLE	WA	141.6000
SELFRIDGE AFB	MI	141.5500
SELFRIDGE AFB	MI	141.8000
SKYHARBR	AZ	140.0000
SNDFRDFD	KY	141.5500
TF GREEN	RI	141.8000
TINKER AFB	OK	141.7000
TNPHTSRG	NV	140.3750
TNPHTSRG	NV	140.4000
TNPHTSRG	NV	140.4250
TNPHTSRG	NV	141.7500
TRAVIS AFB	CA	140.0000
TRAVIS AFB	CA	141.9000
UNVRSYPK	PA	141.8000
US	US	141.5250
US	US	141.6500

Federal Govt/Military continued

LOCATION	ST.	FREQ.
USA	USA	141.8500
USP	USP	140.0000
USP	USP	140.3750
USP	USP	140.4000
USP	USP	140.4250
USP	USP	141.5250
USP	USP	141.5500
USP	USP	141.5750
USP	USP	141.6000
USP	USP	141.6250
USP	USP	141.6500
USP	USP	141.6750
USP	USP	141.7000
USP	USP	141.7250
USP	USP	141.7500
USP	USP	141.7750
USP	USP	141.8000
USP	USP	141.8250
USP	USP	141.8500
USP	USP	141.8750
USP	USP	141.9000
USP	USP	141.9250
VAN NUYS	CA	141.8000
VANDENBERG AFB	CA	141.9250
WILLOW GROVE NAS	PA	141.8000
WILLOW RUN AIRPORT	MI	141.5500
WRIGHT-PATTERSON AFB	OH	140.4000
WRIGHT-PATTERSON AFB	OH	141.7000
YUMA	AZ	141.8000

Here's hoping you have a very happy and safe Holiday Season. Instead of sending a list of what you want for Christmas to Santa (I have it on good authority he still does not have DVP and/or DES descramblers in stock), send a list of what you have (frequency wise) to your Federal Government / Military column. Until next year.....

73's -
Denny

International

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to: Rickey Stein, 456 Barrymore Place, North Brunswick, NJ 08902.

SWEDEN (con't)

As I've written before, public service designators and frequencies are not available from any government source. They are readily availble, however, from such sources as radio receiver manufacturers. An example of this are the following charts which have been re-produced from a 1980/81 handbook produced by the Handic Corp., a Swedish electronics firm which makes transceivers.

handic
Kristalltabeller

Vid mottagning skall varje kanal som önskas avlyssnas i polismottagaren vara försedd med en kristall. Som synes av tabellen nedan finns det ett mycket stort urval av kristaller. Hur väljer man då rätt bland dessa?
Först bör man veta vad man vill lyssna på: polis, brandkår etc. Sedan väljer man kristaller som är anpassade efter den stad eller det område man bor i. Radiohandlaren hjälper dig gärna med urvalet. I tabellen nedan kan du se en förteckning över olika kanal- och kristallfrekvenser samt varje kristalls best.nr. För avlyssning av rikspolis finns sju kristaller som täcker hela landet.

Kristalltabeller för 380/410 MHz-bandet

Kanalfrekvenser — MHz			
380.050	410.075	410.150	410.950
380.150	410.100	410.175	411.850
410.050	410.125	410.250	

Kristalltabeller 80 MHz-bandet

Best. nr	Kanal-frekvens MHz	Kristall-frekvens MHz	Best. nr	Kanal-frekvens MHz	Kristall-frekvens MHz
H 1	78 0125	44 35625	H 43	79 0125	44 85625
H 2	78 0375	44 36875	H 44	79 0375	44 86875
H 3	78 0625	44 38125	H 45	79 0625	44 88125
H 4	78 0875	44 39375	H 46	79 0875	44 89375
H 5	78 1125	44 40625	H 47	79 1125	44 90625
H 6	78 1375	44 41875	H 48	79 1375	44 91875
H 7	78 1625	44 43125	H 49	79 1625	44 93125
H 8	78 1875	44 44375	H 50	79 1875	44 94375
H 9	78 2125	44 45625	H 51	79 2125	44 95625
H 10	78 2375	44 46875	H 52	79 2375	44 96875
H 11	78 2625	44 48125	H 53	79 2625	44 98125
H 12	78 2875	44 49375	H 54	79 2875	44 99375
H 13	78 3125	44 50625	H 55	79 3125	45 00625
H 14	78 3375	44 51875	H 56	79 3375	45 01875
H 15	78 3625	44 53125	H 57	79 3625	45 03125
H 16	78 3875	44 54375	H 58	79 3875	45 04375
H 17	78 4125	44 55625	H 59	79 4125	45 05625
H 18	78 4375	44 56875	H 60	79 4375	45 06875
H 19	78 4625	44 58125	H 61	79 4625	45 08125
H 20	78 4875	44 59375	H 62	79 4875	45 09375
H 21	78 5125	44 60625	H 63	79 5125	45 10625
H 22	78 5375	44 61875	H 64	79 5375	45 11875
H 23	78 5625	44 63125	H 65	79 5625	45 13125
H 24	78 5875	44 64375	H 66	79 5875	45 14375
H 25	78 6125	44 65625	H 67	79 6125	45 15625
H 26	78 6375	44 66875	H 68	79 6375	45 16875
H 27	78 6625	44 68125	H 69	79 6625	45 18125
H 28	78 6875	44 69375	H 70	79 6875	45 19375
H 29	78 7125	44 70625	H 71	79 7125	45 20625
H 30	78 7375	44 71875	H 72	79 7375	45 21875
H 31	78 7625	44 73125	H 73	79 7625	45 23125
H 32	78 7875	44 74375	H 75	79 8125	45 25625
H 34	78 8125	44 75625	H 76	79 8375	45 26875
H 35	78 8375	44 76875	H 77	79 8625	45 28125
H 36	78 8625	44 78125	H 78	79 8875	45 29375
H 37	78 8875	44 79375	H 79	79 9125	45 30625
H 38	78 9125	44 80625	H 80	79 9375	45 31875
H 39	78 9375	44 81875	H 81	79 9625	45 33125
H 40	78 9625	44 83125	H 82	79 9875	45 34375
H 41	78 9875	44 84375	H 83	79 7875	45 24375

Kristalltabeller 80 MHz-bandet

Stad	Lokal-polis	Brand	Taxi
Alingsås	H 68	H 40	H 23
Alvesta			H 23
Arboga	H 49		H 31
Arvidsjaur	H 51		H 18
Arvika	H 48	H 29	H 2
Askim			H 3
Avesta	H 60		H 2
Boden	H 57	H 38	H 2
Bollnäs	H 51	H 18	H 1
Borlänge	H 50	H 29	H 12
Borås	H 48	H 29	H 12
Danderyd	H 63		
Eksjö	H 45	H 64	
Enköping	H 51	H 20	H 4
Eskilstuna	H 66	H 41	H 13
Eslöv	H 56	H 70	H 40
Fagersta	H 64	H 16	H 34
Falkenberg	H 66	H 17	
Falköping	H 76	H 27	H 7
Falun	H 67	H 25	H 6
Filipstad	H 61		H 3
Finspång	H 60	H 48	H 17
Gällivare	H 50	H 31	H 3
Gislaved	H 51	H 30	
Gävle	H 62	H 30	H 7
Hagfors	H 58	H 40	H 11
Hallsberg	H 54		H 18
Hallstavik			H 6
Halmstad	H 50	H 28	
Hammarö			H 75
Handen	H 64	H 30	
Haparanda	H 60		H 9
Hofors	H 55		H 8
Hudiksvall	H 61	H 28	H 10
Huddinge	H 45	H 30	
Hällefors	H 47		H 65
Hälsingborg	H 53	H 35	H 6
Härnösand	H 57	H 23	H 76
Hässleholm	H 58	H 21	H 78
Höganäs		H 26	H 19
Jakobsberg	H 50	H 12	
Jokkmokk	H 57		H 9
Jönköping	H 58	H 46	H 19
Kalix	H 61		H 4
Kalmar	H 55	H 28	H 6
Karlshamn	H 61	H 29	H 4
Karlskoga	H 59	H 30	H 1
Karlskrona	H 66	H 46	
Karlstad	H 53	H 26	H 6
Katrineholm	H 67	H 26	H 7
Kinna	H 48		H 25
Kiruna	H 56	H 29	H 2
Kisa	H 57	H 23	
Klippan		H 75	
Kramfors	H 55	H 21	H 4
Kristianstad	H 57	H 16	H 38
Kristinehamn	H 61	H 38	H 21
Kungsbacka	H 56	H 13	H 34
Kungälv	H 63	H 70	
Köping	H 49	H 76	H 10
Laholm	H 50	H 11	
Landskrona	H 49	H 25	H 1
Lidingö	H 62	H 27	
Lidköping	H 49	H 67	H 10
Lindesberg	H 47	H 68	H 27
Linköping	H 57	H 29	H 12
Ljungby	H 62	H 36	H 9
Ljusdal	H 52	H 27	H 11
Ludvika	H 56	H 36	H 9
Luleå	H 63	H 28	H 7
Lund	H 64	H 30	H 8
Lycksele	H 56	H 25	H 4
Lysekil		H 28	H 2
Malmö	H 78		
Malmö	H 55	H 34	
Malung	H 66		H 7
Malåträsk	H 53	H 40	
Mariestad	H 50	H 66	
Mjölby	H 70	H 34	H 11
Mora	H 53	H 35	H 4
Motala	H 62	H 28	H 9
Mårsta	H 70	H 28	H 8
Mölndal	H 61	H 26	
Nacka	H 62	H 46	
Nordmaling	H 52	H 27	
Norrahammar		H 46	H 77
Norrköping	H 60	H 25	H 3
Norrtälje	H 60	H 25	H 6
Nybro	H 55	H 34	H 17
Nyköping	H 65	H 21	H 2
Nynäshamn	H 64	H 34	H 16
Nässjö	H 45	H 64	H 2
Olofström	H 61		H 23
Osby	H 58	H 47	
Oskarshamn	H 68	H 36	H 7
Perstorp			H 41
Piteå	H 55		H 10
Ravlunda		H 30	
Ronneby	H 48	H 26	H 77
Rättvik	H 54		H 26
Sala	H 57	H 23	
Sandviken	H 55	H 21	H 3
Simrishamn	H 60	H 31	H 13
Skara	H 65	H 36	H 8
Skellefteå	H 53	H 21	H 1
Skövde	H 55	H 20	H 4
Sollefteå	H 62	H 40	H 19
Sollentuna	H 70	H 28	
Solna	H 59	H 36	H 52
Sorsele	H 58	H 36	
Stenungsund	H 63	H 38	H 9
Stockholm		H 29	
Storuman	H 58		H 3
Strängnäs	H 61	H 40	
Strömstad	H 54	H 31	H 12
Strömsund	H 59	H 29	
Sundbyberg	H 59	H 36	
Sundsvall	H 58	H 35	H 77
Sundsvall			H 68
Sunne	H 57	H 23	
Sveg	H 57	H 36	H 17
Säffle	H 64	H 25	H 3
Söderhamn	H 63	H 45	H 20
Södertälje	H 56	H 69	H 9
Sölvesborg		H 45	
Tidaholm	H 47		
Tierp	H 65		H 17
Tingsryd	H 67		H 23
Torsås	H 65		H 3
Tranås	H 45	H 52	H 13
Trelleborg	H 54	H 20	H 3
Trollhättan	H 52	H 35	H 11
Tumba	H 45	H 30	
Täby	H 75	H 48	
Uddevalla	H 45		H 1
Ulricehamn	H 59		H 21
Umeå	H 52	H 34	H 2
Undersåker		H 38	
Uppsala	H 58	H 30	H 1
Varberg	H 57	H 31	H 4
Vetlanda	H 54	H 31	H 1
Vimmerby	H 50		H 16
Visby	H 58	H 20	H 1
Vänersborg	H 60	H 41	H 16
Värnamo	H 51	H 18	H 81
Västervik	H 53	H 30	H 4
Västerås	H 53	H 35	H 11
Växjö	H 63	H 20	H 3
Wilhelmina	H 49	H 26	H 9
Ystad	H 59	H 18	H 2
Åmål	H 51		H 17
Ånge	H 58	H 41	H 16
Åsele	H 49	H 41	
Ålmhult	H 67		H 23
Ängelholm	H 52	H 27	H 7
Öjeby		H 72	
Örby	H 63		
Örebro	H 63	H 46	H 19
Örnsköldsvik	H 60	H 38	H 3
Östersund	H 59	H 31	H 7
Östhammar	H 65	H 26	

Kristalltabeller 80 MHz-bandet

AMBULANS

Län	Best.nr	Län	Best.nr
A — Stad	H 14	O — Län	H 24
B — Län	H 38	O — Stad	H 37
C — Län	H 39	P — Län	H 37
D — Län	H 15	R — Län	H 39
E — Län	H 32	S — Län	H 14
F — Län	H 69	T — Län	H 24
G — Län	H 14	U — Län	H 37
H — Län	H 12	W — Län	H 32
I — Län	H 37	X — Län	H 69
K — Län	H 39	Y — Län	H 13
L — Län	H 24	Z — Län	H 15
M — Län	H 10	AC — Län	H 35
M — Län	H 15	BD — Län	H 39
N — Län	H 32		

RIKSPOLIS		BRANDKÅR		CIVILFÖRSVAR	
Riksfrekvens 1	H 79	Riks Brand	H 44	Civilförsvar	H 5
Riksfrekvens 2	H 43	Stockholm Brand	H 18	Civilförsvar	H 82
Trafik 1	H 71			Civilförsvar	H 22
Trafik 2	H 83			Civilförsvar	H 73
Trafik 3	H 78			Civilförsvar	H 80
Trafik 4	H 80				
Trafik 5	H 73				

Garanti

handic bolagen garanterar fullgod funktion för handic polismottagare endast under förutsättning att de bestyckas med handic originalkristaller (bättre än 0,001% frekvensavvikelse vid rumstemperatur och 0,0015% mellan —20° C och +70° C).
Begär därför handic originalkristaller.
Obs!
Ange alltid beställningsnummer vid beställning.

Kristalltabeller 80—160 MHz

POLISRADIO

Best.nr	Kanalfrekvens	Stad
S 1	168 7125	Stockholm
S 2	168 7625	Stockholm
S 3	168 8375	Stockholm
S 4	168 8875	Stockholm
S 5	168 9125	Stockholm
S 6	168 9625	Stockholm
S 7	168 6875	Stockholm
H 43	79 0125	Stockholm
H 47	79 1125	Stockholm
H 63	79 5125	Stockholm
H 68	79 6375	Stockholm
S 8	167 3000 Bas	Göteborg
S 9	159 3000 Bil	
S 10	167 4500 Bas	Göteborg
S 11	159 4500 Bil	
S 12	167 6500 Bas	Göteborg
S 13	159 6500 Bil	
H 75	79 8125	Göteborg
H 53	79 2625	Göteborg
H 64	79 5275	

••••••••

We're going to take a quick jump over to Norway to look at some frequencies in use there.

NATIONWIDE	CH	FREQUENCY	
Police	1	162.0750	B/M
	2	170.3750	B/M
	3	161.4000	B/M
	4	169.3750	B/M
	5	161.2000	B/M

OSLO			
Police	1	170.4000 primary channel	B/M
	2	170.4250 traffic police	B/M
	3	170.8000 telephone	B/M
	4	170.6500 crime police	B/M
	5	170.7000 primary channel	B/M
	6	162.1000 traffic police	B/M
Fire	1	172.1250	B/M
	2	172.2750	B/M

••••••••

And finally this month, here is a copy of the 1984 TV license from the U.K. A bit different from last month's 1983 issue.

BRL 01 052216 1.83 220390711 F60

TELEVISION LICENCE (MONOCHROME AND COLOUR) — General Form

Wireless Telegraphy Act 1949

This licence expires on the last day of MAY 19 84

1. This licence applies to the person named below (the licence holder) and any member of his/her family and domestic staff while they are living with him/her at the address shown below.
2. This licence permits the above people to install and use in any rooms they occupy at the address below black and white television receiving equipment and, if this is a colour licence, colour television receiving equipment for the purpose of receiving television broadcasts transmitted for general reception from authorised Broadcasting Stations.
3. This licence also permits the above people, and any member of the licence holder's family living away from home as a full-time student at an educational establishment, to use in any other place portable black and white television receiving equipment and, if this is a colour licence, portable colour television receiving equipment for the purpose stated in paragraph 2 above - BUT ONLY IF:
   a. they normally live at the address below; and
   b. the equipment is then powered only by its own internal batteries; and
   c. the equipment is not permanently installed.
4. This licence is issued subject to the conditions shown on the back of this licence.

MR A HALLIGEY

Issued by:

for Secretary of State for the Home Department

COLOUR

This space is for the Official Stamp

WARNING: This licence is not valid until it is initialled and properly stamped by the officer issuing it at a post office or the National TV Licence Records Office.

Conditions

1. This licence may not be transferred to another person.
2. You are obliged to let authorised Post Office or British Telecommunications employees inspect your television licence(s) and television receiving equipment at any reasonable time, but you do not have to let them enter your home.
3. Your television receiving equipment must not cause undue interference. If it does, Post Office or British Telecommunications employees can order you to stop using it.
4. The Secretary of State can end or alter this licence by a written notice at any time.

IMPORTANT—This licence permits you to do only what is stated on the licence. You may be committing an offence if you install or use television receiving equipment outside the terms of this licence. If you have any questions, please write to: NTVLRO, BRISTOL, BS98 1TL.

Refunds

You can only get your money back if:-

a. when you get a colour television licence you give in your current monochrome licence; or
b. within the first 28 days for which your licence is valid (which in the case of a renewal licence means 28 days from the date your previous licence expired) you stop needing a television licence; or
c. you have two current television licences but one was obtained by mistake.

If b or c applies, please write to NTVLRO, BRISTOL, BS98 1TL.

Poor Reception

A pamphlet entitled "Good Radio and Television Reception" is available at most post offices.

Change of Address

If you change your permanent address please write your new address below and take this licence to any post office for the licence to be altered.

New Address (IN CAPITAL LETTERS) .....

..... Postcode .....

That's all for this month. See you next month.... כ'פ -פלא

THE NEW FOX SCANNER RADIO LISTINGS DIRECTORY

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TAMPA/SAINT PETE	RL004-2	CHICAGO	RL014-1
OKLAHOMA CITY/LAWTON	RL005-1	HAWAII/GUAM	RL015-1
CINCINNATI/DAYTON	RL006-1	LOS ANGELES	RL016-1
LOUISVILLE/LEXINGTON	RL007-1	CLEVELAND	RL017-1
DETROIT/WINDSOR	RL008-1	SAN DIEGO	RL018-1
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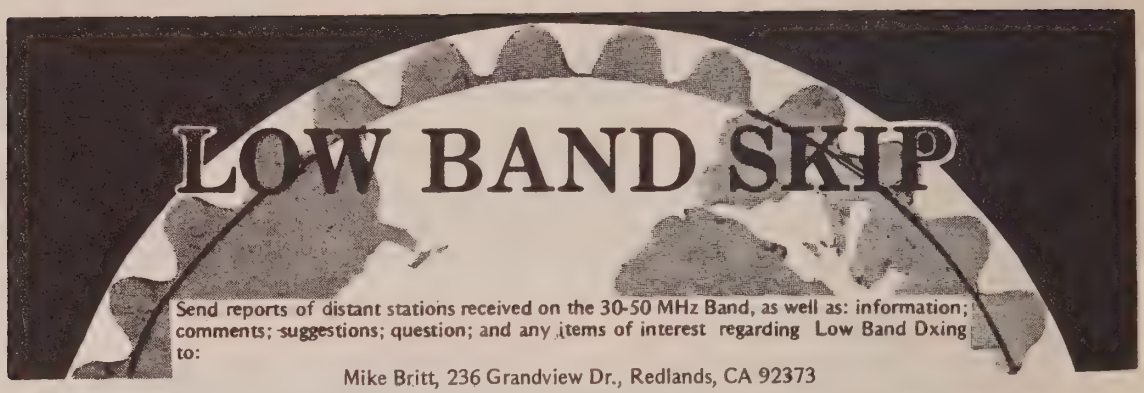


Send reports of distant stations received on the 30-50 MHz Band, as well as: information; comments; suggestions; question; and any items of interest regarding Low Band Dxing to:

Mike Britt, 236 Grandview Dr., Redlands, CA 92373

From David Marshall (OH-146), now president of the ALL OHIO SCANNER CLUB, some loggings of interest from February, March, and April of 1984. Dave uses a BC-250 with a Winn-Tenna DX40, mounted 18 feet above the ground (elevation: 975 feet above sea level), and also a Regency MX3000 using a Grove Omni antenna mounted on the same mast, below the DX40. In February, Dave said he even picked up some skip on his BC-100 with a homemade dipole antenna attached. This was during a period of strong F_2 skip, of course.

In February of 1984, Dave sent me a tape of some Spanish transmissions he had been receiving on his scanner. Of major interest was 33.76, on which David had been hearing a Spanish language business operation daily during parts of January and most of February. Here in California, I had first heard this station back in 1979, and had identified it as being from somewhere in Mexico. Because of talk about ore samples, etc. I had thought it was perhaps related to a mining operation. Despite several efforts to pinpoint the specific point of origin within Mexico, I had never succeded. Then Dave's tape arrived, along with a copy of some rough translating that Dave had gotten from a high school Spanish teacher in his Ohio town. The translated notes were more of an outline, for once I listened to the tape itself, my knowlege of Spanish and of radio terminology told me Dave had indeed struck ORO as far as an ID was concerned. Dave had recorded, at length, a half-a-day's worth of tranmissions from this business, with several place names mentioned which sent me immediately running to program 33.76 into a scanner and grab a map of Mexico at the same time! No sooner had I put down Dave's letter and programmed in 33.76 than I was hearing the Spanish transmissions myself! Between the information Dave had recorded on his tape, and the conversations heard by myself that afternoon, I was able to make a precise ID on the origin of 33.76.

As it turns out, 33.76 is some sort of trucking/constuction operation in Zacatecas, Mexico (the capital city of the state with the same name). It is located northwest of San Luis Potosi and southeast of Durango in central Mexico and is situated about 55 kilometers south of the Tropic of Cancer. Towns mentioned included "Villa Nueva", 18 miles southwest on Mexico 54, and "Guadalupe" ("take the highway to Guadalupe") just east of Zacatecas.

The transmissions consist of dispatchers talking both to trucks and to other bases. Bases are "Planta Norte" (North Plant) and "Planta Sur" (South plant) as well as "Planta Esquina" (Corner Plant). The dispatchers route the trucks and give them orders as to the cargo they are to transport from the Plantas, which could be warehouses. The operation would seem to be more than just transport, however, as there is quite a bit of talk about the assignments for groups of men, and the various sites at which they will work. Just what they are working on, I'm still not sure. There is often refrence to pumps, and reports are given in which groups of measurements (?) are read ("metros", as Mexico is metric). There is a possibility that the operation is somehow related to Pemex, the national petroleum company of Mexico.

At the same time, a station which sounded very similar to 33.76 was received on 33.55. Upon further investigation, I was startled to discover that I was hearing the same dispatchers on 33.55 as on 33.76! To back this up, they refeered to "Planta Norte" and "Planta Sur" once again. The 33.55 frequency was not nearly as active as 33.76, although quite a bit of traffic was present. It appears that 33.55 is a second channel for this same operation heard on 33.76. Again there are many refrences to things which are commonly related to the oil industry, but unlike the oil operations heard on 40 and 44 MHz, these are not drilling sites or pump station radio bases.

Again, if not for the efforts of Dave (OH-146), I might not have traced this operation to it's specific origin. Because Dave concentrated on 33.76 alone, and sent several recordings of full conversations, the task was much easier. It is often difficult or impossible to ID a foreign skip, since a DXer won't often catch more than a small segment. Thus, when taping, I recommend you concentrate on certain stations of interest, and then record as much as you can of them. If you don't want to miss any of the action when a skip "storm" appears, you'll be better off using at least two scanners - one you can lock onto a channel and record from, the other to keep searching for DX on.

Low Band Skip continued

NIGARAGUAN REBEL REPEATERS PART II

+++ A brief look at what's been heard +++

Last month, I revealed the "truth" about those mysterious 33.X75 repeaters. Now then, let us take a quick look at what it was that they are saying — or were saying when last heard from. Recall the frequencies in question are 33.475, 33.675, and 33.875...all of which are repeater output channels (the inputs being on 39 MHz, exactly 6 MHz above each output frequency).

As I mentioned in the last column, I had thought these stations to be business operations until closer inspection by Luis, my Nicaraguan friend and translator. He took me through some of the tape recordings of these stations, and pointed out the discrepancies and vague meanings which I had not seen, Additionally, he explained a number of conversations which I hadn't understood at all,

Here are some examples. On 33.675, the man in charge, at the "officina" is continuously being reported to by other males out in the field, and females at other base locations. The females give reports, often listing what sounds like invoices. But theynever really make sense. Why would anyone ship 83 bags of watermelons? Unless, of course, "watermelon is a psuedonym for something else. Then there is one segment I have on tape in which the man in charge is balling out another individual who is somewhere out in the country. The leader tells the mobile unit, quite angrily, that he and his group were not suppossed to get so close to "the camp" and is he sure there were not seen? The man in the field assures his superior, over and over, that "everything is fine." The man in charge reminds the one in the field that his group was to go to work there everyday that week, but had been told to stay below a certain place. In another conversation, which is quite vague, there are refrences to someone making good on what others had promised...followed by the mention of a tank. This could be a tank of something—fuel, for example. The military apparatus by the same name is also a possiblity. There is also refrence to something which will "motivate" an uprising. And then the speaker, at this point, the man who is in charge, distinctively refers to "here at La Penca." Recall that La Penca is a rebel campof the Democratic Revolutionary Alliance—the very camp which was bombed in late May of this year, killing an American reporter and seriously injuring famed guerilla leader Hedin Pastora. I should note that the recordings I'm discussing here were made prior to the bombing.

Other interesting refrences have been heard on 33.875, and I hope to share those later, but at this point, we are still working on the possible meanings of those conversations heard on 33.875. It is notable that there are several doctors, or at least, people who call themselves doctors, heard on 33.875. Bases heard are Central and Sur (South) and there may be some links to the operations heard on 33.475 and 33.675.

The conversations heard on 33.475, in contrast to those on 33.675 and 33.875, have been somewhat sparse, and often unreadable because of the amount of repeated skip (and also the emergence of a extremely annoying computer generated "beeeep" from the L.A.F.D.'s digicom system more often than anyone would care to hear it! That is actually on 33.48, but is sufficent to interfere with the skip on 33.475). Perhaps the person who's had the most success with the 33.475 skip has been Hugh Stegman (CA-LA-472), who recently sent me some recordings of that skip—at my request. Well, my initial notes upon listening to the tape reveal my reaction. Scribbled across the page is my notation: "My God, these are the same people as on 33.675!!" On both channels, a female speaker will ocassionally call "Azul, Azul, Azul". Translated literally, she is saying "Blue, Blue, Blue." I have no idea what this means, but if it were the name of a base, why is it nobody ever answers? (It is a common format for Spanish radio operators to say the name of a base they are calling in a series of three quick repetitions, until that base answers. Thus, on 32.2 we often hear "Guatamala, Guatamala, Guatamala", from another base which is calling Guatamala City.). Perhaps "Blue" is some code word (like in hospitals: "Code Blue in I.C.U., Code Blue in I.C.U."). Whatever it means, the same exact thing is heard being said on 33.475! Also, I'm certain that one of the females heard on 33,475 is the same one heard on 33.675. This same lady, when on 33.475, IDs as "Central"—just like on 33.875. On the tape from Hugh, the female radio operator several times calls to "Jardines" (the gardens) and also calls to "Condorcito" which translates "little Condor" (the bird of prey). Another man on 33.475 is referred to as "Jefe", which means "chief" or the leader or head of a group. Well, that at least sounds suspicious!!

A note to Hugh Stegman: No, there was no refrence to "Godzilla" on 33.475. (This, is an inside joke which I have to share with all you RCMA members. Back in late 1982, Hugh and I compared notes on the noises which came from 33.475. One of these is actaully the Digicom beeps from 33.48, which combined with the static of garbled skip being repeated on the channel 33.475 sounds like something out of a Japanese Sci-Fi film. Commented Hugh, "If your squelch operated tape runs these together into a continuous sci-fi noise like mine does, complete with occasional tesla-coil buzzes from our dinosaur repeater...you understand why I want to put this sound into a film I've been meaning to finish for years now.

Low Band Skip continued

Once I figured out that the repeater buzz reminded me of the ten-foot Tesla coil in Griffith Park (they use these things in movies to get lightning, like when space ships get zapped), I realized why it was both ominous and high-tech at the same time." Hugh even suggested a movie about the repeater be titled "The I.T.V. meets Godzilla," and noted that Universal would probably retitle it "Satans Repeater" or "The Beast that wouldn't Squelch." Some of us, like Paul Batuts (MA-082), remember when 33.475 was one heck of an open carrier--for months!).

I'll close on this remark from Hugh: "I still think the best explanation for Godzilla is an eccentric RCMA member down there who loves to read about his handiwork in the 'Low Band Skip' column." The next thing you know Hugh will tell us he got a QSL from Godzilla!

73s Mike

Marketplace

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to:
RCMA MARKETPLACE, c/o Gary M. Darcy, P.O. Box 1329, Palmdale, CA 93550.

Please be sure to include your membership number.

All Marketplace ads will be accepted ONLY on special forms available from this column's editor. Send a self-addressed STAMPED envelope (business size) to the address above to receive a supply of forms. Foreign members do not need to include postage on envelopes they send.

FOR SALE: Unimetrics Duo-Vox 2 channel receiver. Pager size; belt clip; 154 - 156 Mhz; complete with 154.400, 155.535, 155.850; with charger. $50.00. Contact: STEPHEN TAKSLER (NJ-142), 15 Benford Dr., Princeton, NJ 08550 or phone 609-799-3736.

FOR SALE: Pace Scan 10-4L. 4 channel; very small; low band; includes 6 crystals. $45.00. Contact: STEPHEN TAKSLER (NJ-142), 15 Benford Dr., Princeton, NJ 08550 or phone 609-799-3736.

FOR SALE: Bearcat 20/20 RC (Canadian Model). 2 years old; excellent condition; includes all new accessories; in original box. $215.00. Will ship insured UPS. Contact: GILBERT LUDWIG (MO-066), P.O. Box 232, Chesterfield, MO 63017 or phone 314-532-7409.

WANTED: Regency 16 channel scanner model ACT E 16 H/L and Regency model ACT R 20/6. Please inform me of condition and asking price. Contact: DENNIS RUDA (NY-057), 42 Harry L Dr., Johnson City, NY 13790.

FOR SALE: Fanon/Courier CopScan VHF Hi/Lo 4 channel. Price includes an assortment of crystals for the scanner and a mobile power cord. Crystals sold separately for $3.00 each. SASE for list of frequencies. Crystals cut for Fanon/Courier. CopScan: $90.00. Contact: MARK W. JOHNSON (ID-012), Box 251, Fairfield, ID 83327 or phone 208-764-2604.

FOR SALE: Grove Scanverter CVR1. Has been modified to the new CVR1B model. $50.00. Shipping included. Contact: PAUL GROSINGER (NJ-065), 58 Old Rt. 23 Rd. #2, Newfoundland, NJ 07435.

FOR SALE: Bearcat 210. Recently factory reconditioned; very good condition; with manual, antenna, power cord, and factory carton. $140.00. Contact: JOE VELASQUEZ (CA-SO-006), 248 Plantation Way, Vacaville, CA 95688 or phone 707-447-5477.

FOR SALE: Realistic PRO-25. Complete; like new; with 10 crystals, SASE for list of frequencies. $110.00/postpaid. Contact: KEVIN R. HOBSON (WA-050), P.O. Box 15927, Seattle, WA 98115.

FOR SALE: RCD 10.7 crystals. Less than 2½ years old-little use. SASE for list of frequencies. $2.00 each. Contact: DON GRUVER (KS-010), 204-C W. 6th, Hays, KS 67601 or phone 913-625-7115 (No collect calls, please.).

WANTED: Microfiche. Want recent, complete sets of the Master Frequency Data Base, either frequency sequence or service group sequence in good condition. Also, sets of either licensee name, transmitter state index, or call sign index prior to 1982. Contact: DANIEL L. WELTY (OH-126), P.O. Box 355, Christianburg, OH 45389.

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 x 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to:

Hugh Stegman, 11622 Exposition Blvd., #2, Los Angeles, CA 90064

XXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIII

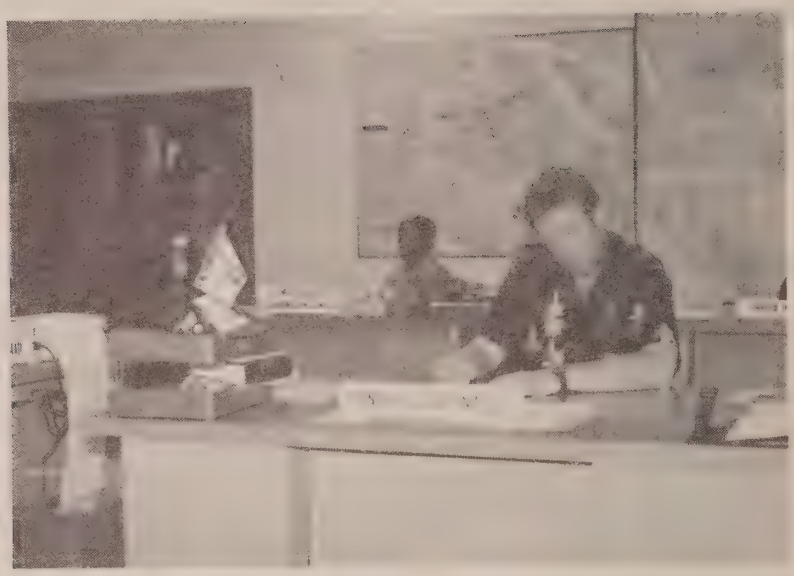
CALTRANS OLYMPIC TRAFFIC CONTROL CENTER

XXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIIIXXIII

In order to deal with the cataclysmic traffic jams expected on L.A. freeways during the Olympics, the California Dept. of Transportation (Caltrans) set up this temporary center in a library room of their downtown HQ building. When this traffic never materialized, the TCC was relaxed enough for RCMA member Frank L. Gore (CA-LA-246) to take some pictures. As in the city EOC seen last month, we have many agencies represented, with plenty of landlines and a Motorola consolette or two.

The exterior of the building proves that Caltrans had gotten into the Olympic spirit.

In the next shot, note the O.S.C.C. desk in the back. This was the big security net with participants in all agencies. Also note the center coordinator's cap. Like most of us, he appears to be into the 24th Olympic event - pin trading. Anybody have an extra Motorola?



Caltrans had many extra observation posts, plus helicopters. This made their low-band frequencies THE PLACE for timely traffic info. Mostly, we just heard "free flow"! Good job, guys.

Frank also took the great picture of the LAPD mounted officer. The horse unit started as something of a labor of love for the individual officers involved. It was essential for crowd control at the Olympics and related activities.

The officer holds his ROVER radio. These are the 8-channel Motorola HT's mentioned last month. Olympic use was mostly simplex on the four TAC channels, with several temporary base stations at CP's around town. Officers in the more conventional black & whites put one ROVER into a Converta-Com box, connecting it to an external, roofmount antenna. The "old" VHF radios of Adam-12 fame are used for MDT, plus some detective activity.

IT'S SKIP SEASON!

The next photo, sent by Chuck Robertson (IL-141) shows some of his antennas. Chuck contributes to several radio magazines, and always seems to be logging remarkable low-band skip traffic when the

rest of us hear noise and an occasional Argentine pager. Chuck's setup was in this column before I took it over, but I thought I'd give our newer RCMAniacs a chance to drool a little.

LEFT:

Rotatable VHF log periodic and UHF long yagi. Chuck did not give their use - perhaps it is TV DX.

MIDDLE TOWER, TOP TO BOTTOM:

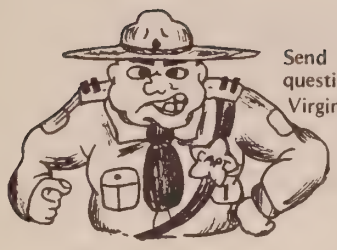
Shortened CB vertical for VHF-low, rotatable VHF corner reflector, UHF corner reflector, mast supporting a Channel Master all-band scanner antenna.

RIGHT:

Drooping ground plane, retuned for VHF-low.

Chuck listens on three BC 250's and two Regency M-400's. He reports that the Regency is more sensitive below 32 MHz. Since a good percentage of the Bearcats don't get much of anything down there, I would tend to agree, although mine tests out down to 29.9 meg.

I would tend to put about as much stock in predictions of no skip this winter as I did in prophecies of nuclear blackmail during the Olympics. Old Sol might surprise us - he's good at that.



PUBLIC SAFETY — SOUTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows – Florida, Georgia, N. Carolina, S. Carolina, W. Virginia, and Virginia:

William Mauldin, 2268 N.W. 30th Rd., Boca Raton, FL 33431

PUBLIC SAFETY SOUTHEAST INDEX REFERENCE FOR 1983 & 1984

To assist readers of the Public Safety Southeast in finding material in back issues, this is an index of material contained in this column for the years 1983 and 1984. Back issues can be ordered from the club. Instructions are contained in the front of the Newsletter.

CONTENTS OF EACH ISSUE, LISTED BY MONTH PUBLISHED PUBLIC SAFETY SOUTHEAST FOR 1983 BY ISSUE

JANUARY 1983:

Atlanta Police signals, codes, frequencies; North Carolina DOT frequencies; North Carolina Rescue Squad frequency; North Carolina Intercity frequency and PIN information; Guilford County Sheriff's Dept frequencies (Greensboro NC); Guilford County Ambulance Service frequency and signals and codes; Guilford County NC Fire Dept frequencies; High Point NC Police frequencies; Roanoke & Salem VA Police, Fire & EMS freqs; Florida Highway Patrol base station list & frequency assignments; Clearwater FL Police, Fire and LG freqs; Jacksonville & Miami FL FD freqs.

FEBRUARY 1983:

Virginia State Police frequency listing with District Office list; West Virginia State Police frequencies & base station assignments; West Virginia State Police Turnpike freqs; West Virginia Prison & Corrections freqs; W Va VFD and Vol EMS freqs; South Carolina Highway Patrol freqs & base stations; SC SLED freqs; Georgia State Patrol freqs; Georgia Bureau of Investigation freqs; NC Wildlife Resources Commission date & freqs (Out of date); NC DOT freqs.

MARCH 1983:

CURRENT Georgia State Patrol 10 Signals & frequency list. Georgia State Patrol Post ID list; GBI frequencies and offices; GA Fish & Game freqs; GA CD and Forestry freqs; CURRENT South Carolina Highway Patrol freqs, troops, signals, transmitter locations; SC SLED information. (*** This is a very good reference for those of you who want data on the Georgia State Patrol and SC Highway Patrol!)

APRIL 1983:

CURRENT Virginia State Police codes & signals; VSP base station list (revised in later issue); Article Monitoring Tampa Bay (current data) lists many police, fire and EMS freqs.

MAY 1983:

CURRENT Tampa Police signals & codes (continued article from April 83), Tampa PD, FD, Hillsborough County Sheriff and FD freqs; Tampa EMS Operational signals (current, complete!) (If you want to monitor Eastern Tampa Bay, April and May 83 are a must!)

JUNE 1983:

CURRENT North Carolina Wildlife Resources Commission radio system profile with frequencies, base station IDs, call signs, official 10 signals. Article "Monitoring Charlotte NC and Surrounding Area" - complete, current freqs for PDs, FDs, Highway Patrol, EMS, codes and signals. (These are extensive, current articles!)

JULY 1983:

CURRENT, extensive article on West Virginia State Police with lists of codes, base stations, frequencies. CURRENT, extensive article on Jacksonville FL PD, FD and EMS with all codes and frequencies.

AUGUST 1983:

CURRENT, extensive article on "Monitoring Northern Virginia" with lists of freqs and codes for PDs, FDs and media. Complete code of Arlington County VA Police, Fairfax County Police. UPDATES: Plantation FL FD; Charlotte FD.

SEPTEMBER 1983:

Amateur Radio Shortwave frequency list & call letter profile; Norfolk & Virginia Beach freqs and signals; CURRENT article on NC Forest Service with complete signals, freqs, stations; Article on "Monitoring South Florida" with frequency list for Monroe County FL Sheriff (Keys); Dade County FL Public Safety Dept (Miami); City of Miami PD & FD freqs; General Interest Miami area freqs; Broward County FL Sheriff freqs; Ft Lauderdale PD & CDC; Hollywood PD & CDC freqs; Pompano Beach PD & CDC; Palm Beach Sheriff & CDC freqs; Boca Raton FL PD, FD freqs; Delray Beach PD; Boynton Beach PD CDC. (Updates on this list are in later issues.) UPDATES: NC Wildlife Comm; Tampa Bay corrections; Charlotte NC additions.

OCTOBER 1983:

Blacksburg VA general frequencies; Richmond & Henrico Co VA general frequencies; Article "Monitoring Charleston SC" with codes & freqs for PDs, FDs and EMS. UPDATES: Arlington Co VA PD additions with Washington National Airport PD freqs; additional Washington area EMS and media notes. Virginia State Police additions; Broward County FL Mall Security; Florida Forestry, Florida Marine Patrol, Florida DOT, Florida Dept of Corrections notes; additions to eastern and western Tampa Bay PDs, EMS past listing.

NOVEMBER 1983:

Extensive index for RCMA Public Safety Southeast going back to March 1981 thru October 1983. For those of you who would like an index going all the way to when the Southeast really started getting club attention, this is a must! Extensive corrections and updates on Broward County FL Central Dispatch Center (CDC) relating to Broward Sheriff frequencies and surrounding cities. Extensive corrections and additions to the Virginia Beach PD, FD and EMS system. A full page of additions and corrections for Greater Atlanta area and La Grange GA.

DECEMBER 1983:

Article "Monitoring the Orange Bowl in Miami" covers just about everything from police to fire to media and transit for Greater Miami and Dade County. Two full pages of just about everything needed to enjoy the Orange Bowl parade and game. Article "Monitoring Savannah GA" covering city, county and state freqs in the Savannah GA area. UPDATES: Corrected frequency list for Palm Beach County FL Sheriff; notes on Fairfax County VA media and police.

PUBLIC SAFETY SOUTHEAST FOR 1984 BY ISSUE

JANUARY 1984:

Miami FL FD frequencies; Article "Florida Division of Forestry", giving extensive data, codes, frequencies, assignments for Florida Forestry and Firefighters; frequency lists of Florida State's Attorneys and Florida's University PDs; listing of frequencies for Indian River County FL.

FEBRUARY 1984:

Media frequencies for Tampa Bay Super Bowl; "Monitoring Roanoke Virginia" lists PD, FD, LG, EMS and media data for Roanoke and Salem VA; "Monitoring Prince William County Virginia" gives detailed listing of PD and FD freqs; "Monitoring Charlotte County, Florida" lists PD, FD, LG and EMS freqs; Stuart FL EMS and FD freqs; Columbia SC and Myrtle Beach PD & FD freqs; "Profile of Columbia SC FD" gives stations, freqs, equipment listing. Complete listing of all "North Carolina Amateur Repeaters" with frequency and repeater site locations.

MARCH 1984:

Atlanta Airport PD 800 MHz frequency list; Deerfield Beach FL PD 800 MHz frequency list; Article "Monitoring Eastern North Carolina" gives extensive listing of frequencies for PDs, FDs, EMS and state agencies for eastern NC; Article "Monitoring Western Virginia" does the same for western Virginia as well as listing for Virginia State Police channels and VA DOT; Article "Monitoring Arlington County, Virginia" covers frequencies for county PD, FD and LG by channel assignment; "Monitoring Georgia Sheriff's Communications" gives complete breakdown of IDs and frequencies statewide.

APRIL 1984:

Article, "Monitoring Florida's Panhandle" gives complete code and frequency list for Florida Sheriffs in 10 panhandle counties; complete listing of 10 signals and dispatch signals used by Florida Sheriff's Association (used statewide except in Miami area); "Monitoring Huntington, WV" gives frequency list of PDs, FDs, general interest; "Charlotte NC FD Profile" presents listing of equipment, frequencies; "Profile of Orlando FL FD" lists equipment, frequencies for department. UPDATES: Florida State's Attorneys; western Tampa Bay; Fla Div of Forestry; Fla State Parks; Northern VA traffic reporters; revised Broward County Sheriff freqs; Fla Fish & Game notes; Fla Dept of Law Enforcement for Orlando; Orlando FL traffic and news reporting frequencies.

MAY 1984:

Article, "Monitoring Greater Atlanta, GA" covers all known Atlanta PD, Fulton County, Gwinnet, Cobb County PD frequencies with Atlanta & Fulton County dispatch codes and status codes; Article "Monitoring St. Petersburg, FL" gives extensive frequency list for St. Pete PD and surrounding cities with dispatch signals; Pinellas County FL Hospital network frequency list. UPDATES: Florida NOAA weather frequencies; Tampa statium and traffic freqs; Charlotte County FL Sheriff notes; extensive Washington area media frequency listing; Pasco & Hernando County FL updates; West Palm Beach FL PD 800 MHz listing; notes on monitoring FHP speed checking aircraft.

JUNE 1984:

Article, "North Carolina State Highway Patrol" covers everything known about NCSHP with maps, frequencies, assignments, IDs, codes, base station calls and locations. Complete, up to date 10 page profile of the NCSHP!

JULY 1984:

Dekalb County GA PD codes, frequencies, FD stations, channels; profile of Greater Dade County (Miami area) FD with freqs, equipment, station data; Florida Disaster Control and EOC profile with special data on Palm Beach County; Jacksonville FL listing revised.

AUGUST 1984:

Article, "Virginia State Police" covers everything known about the VSP with 7 pages of maps, frequency lists, codes, base station locations and calls, division HQs, and channel assignments. This is a current and an extensive profile of the VSP!

SEPTEMBER 1984:

Article, "Monitoring Western Tampa Bay" covers many local PDs, FDs, LG and EMS systems with frequency lists and assignments for the WESTERN side of Tampa Bay. Tampa PD and Hillsbrough County frequencies are noted, but not extensively. SAS Ambulance (which serves western Tampa Bay area) codes are listed along with hospital IDs. UPDATES: Indian River County FL note; additional western Tampa Bay notes; Florida Forestry, Fish & Game, and FDLE notes; IBM Security for Boca Raton FL; Palm Beach MedCom, Aviation Authority, School Security notes; Virginia Beach area misc updates; Georgia Forestry notes for Augusta and Savannah areas; note on Greater Atlanta "MRD" frequency. Information on catalog numbers, how to order and address for FCC microfiche frequency listings.

OCTOBER 1984:

Article, "Florida Highway Patrol" covers frequencies, troop locations, station frequencies and call letters for statewide FHP as well as Florida Turnpike system. Everything needed to monitor FHP stations, cars, airplanes with complete data on call signs and how the systems work. This is complete and up to date. UPDATES: West Virginia Dept of Natural Resources frequencies; note on Wake County (Raleigh NC) Sheriff regarding use of 800 MHz phones in patrol cars; upates on Raleigh area frequencies; revised Broward County CDC Sheriff channel assignments; updates on Tampa Bay, east and west sides; Florida Dept of Law Enforcement (FDLE) mobile radio control head shown.

NOVEMBER 1984:

Article, "Gwinnet County, Georgia" covers FD and PD frequencies, codes along with a general area frequency listing for Greater Atlanta PDs, FDs, media; brief general interest listing for Central Florida, east coast PDs, National Seashore Rangers; over two pages of frequencies used by Cape Kennedy launch teams and media for outstanding monitoring of shuttle launch! Update on New Bern NCSHP station being remoted to Williamston for dispatch; note on Augusta area.

DECEMBER 1984:

COMPLETE cross reference index for all Public Safety Southeast articles starting with January 1983 and running through this issue, December 1984.

PUBLIC SAFETY SOUTHEAST 1983 & 1984 BY LOCATION

To locate a subject in this cross reference index, look under the state for the state agency, county or town, then refer to the monthly issue contents summery listed earlier for more information on the material covered.

State of Virginia:

Arlington, VA	Aug 83, Mar 84	(Also see Northern Virginia)
Blacksburg, VA	Oct 83	
Fairfax, VA	Aug 83, Dec 83	(Also see Northern Virginia)
Norfolk, VA	Sep 83	
Northern Virginia	Aug 83, Oct 83, Apr 84, Aug 84	
Prince William County	Feb 84	
Richmond, VA	Oct 83	

Roanoke, VA	Jan 83, Feb 84	(Also see Western Virginia)
Salem, VA	Jan 83, Feb 84	(Also see Western Virginia)
Virginia Beach area	Sep 83, Nov 83	
Virginia Dept of Trans	Mar 84	
Virginia State Police	Feb 83, Apr 83, Oct 83, Mar 84, Aug 84	
Western Virginia area	Mar 84	

State of West Virginia:

Huntington, WV area	Apr 84	
Statewide EMS & VFDs	Feb 83	
W Va Natural Resources	Oct 84	
W Va Prison Dept	Feb 83	
W Va State Police	Feb 83, Aug 83	

State of North Carolina:

Amateur Radio Repeaters	Feb 84	
Charlotte, NC area	Jun 83, Aug 83, Sep 83, Apr 84	
Eastern North Carolina	Mar 84	
Guilford County area	Jan 83	
Inter-city, statewide	Jan 83	
NC Dept of Transportation	Jun 83	
NC Forest Service	Sep 83	
NC State Highway Patrol	Jun 84, Nov 84	
NC Wildlife Protection	Feb 83, Jun 83, Sep 83	
Raleigh, NC area	Oct 84	
Rescue Squads, statewide	Jan 83	

State of South Carolina:

Columbia, SC area	Feb 84	
Myrtle Beach, SC area	Feb 84	
SC Highway Patrol	Feb 83, Mar 83	
SC Law Enforcement Div	Feb 83, Mar 83	

State of Georgia:

Atlanta, GA area	Jan 83, Nov 83, Mar 84, May 84, Jun 84, Sep 84 Nov 84	
Augusta, GA (Forestry)	Sep 84	
Cobb County	May 84	(See Atlanta area)
DeKalb County	Jul 84	(See Atlanta area)
Fulton County	May 84	(See Atlanta area)
Georgia Bureau of Invest	Feb 83	
Georgia Fish & Game	Mar 83	
Georgia Forestry Service	Sep 84	
Georgia State Patrol	Feb 83, Mar 83	
Gwinnette County	May 84, Nov 84	(See Atlanta area)
La Grange, GA	Nov 83	
Savannah, GA area	Dec 83, Sep 84	
Sheriff's Statewide Net	Mar 84	

State of Florida:

Clearwater, FL city	Jan 83	(See Tampa Bay area)
Boca Raton, FL	Sep 83, Sep 84	(See Palm Beach County)
Boynton Beach, FL	Sep 83	(See Palm Beach County)
Broward County	Sep 83, Oct 83, Nov 83, Apr 84, Oct 84	(See Ft Lauderdale)
Cape Kennedy Space Ctr	Nov 84	(See National Seashore)
Charlotte County	Feb 84, May 84	
Dade County	Sep 83, Dec 83, Jul 84	(See Miami area)
Deerfield Beach, FL	Mar 84	(See Broward County)
Delray Beach, FL	Sep 83	(See Palm Beach County)
East Central Depts	Nov 84	(See Cape Kennedy)
Florida Dept of Correction	Sep 83	
Florida Dept of Law Enf	Apr 84, Oct 84	
Florida Dept of Transp	Oct 83	
Florida Div of Forestry	Oct 83, Jan 84, Apr 84, Sep 84	
Florida Emer Ops Center	Jul 84	
Florida Fish & Game	Apr 84, Sep 84	
Florida Highway Patrol	Jan 83, Dec 83, May 84, Oct 84	
Florida Marine Patrol	Oct 83	(See Tampa Bay)
Florida Park Rangers	Apr 84	
Florida Sheriff's Assn	Apr 84	
Florida's State Attorneys	Jan 84, Apr 84	
Florida's Universities	Jan 84	

Public Safety - South East continued

Ft Lauderdale	Sep 83	(See Broward County)
Hollywood, FL	Sep 83	(See Broward County)
Indian River County	Jan 84, Sep 84	
Jacksonville, FL area	Jan 83, Jul 83, Jul 84	
Miami, FL area	Jan 83, Sep 83, Dec 83, Jan 84, Jun 84,	(See Dade County)
Monroe County	Sep 83	(Key West area)
National Seashore Rangers	Nov 84	
National Weather Service	May 84	
Orlando, FL	Apr 84	
Palm Beach County	Sep 83, Dec 83, May 84, Jun 84, Sep 84	(See Fla EOC)
Panhandle Counties	Apr 84, May 84	
Plantation, FL	Aug 83	(See Broward County)
Pompano Beach, FL	Sep 83	(See Broward County)
St Petersburg, FL	May 84, Sep 84	(See Tampa Bay)
Stuart, FL	Sep 83, Feb 84	
Tampa Bay area	Apr 83, May 83, Sep 83, Oct 83, Feb 84, Apr 84, May 84, Sep 84	(Covers wide area, east & west!)
West Palm Beach, FL	May 84	(See Palm Beach County)

FROM THE CAPTAIN'S DESK

First, from Public Safety Southeast a wish for the very best during the upcoming Holiday and Christmas Season, and a wish for a Very Happy New Year!

During a recent visit to Greensboro, N. C., my hometown, I found some interesting monitoring on the Department of Interior, Blue Ridge Parkway Rangers, frequencies. Many, but not all of them, were easily readable with the indoor antenna on my Bearcat 300. If you are within range, try these and let me know if you hear anything: 166.300 MHz; 166.350 MHz; 166.375 MHz, 166.900 MHz; 167.150 MHz; 167.170 MHz (confirmed from Greensboro when I was there); 167.175 MHz (confirmed from Greensboro and in Police Call); 168.725 MHz; 168.625 MHz. These frequencies should prove very interesting as the snow starts falling and roads close, considering all the other related possible problems! Please let me know what you hear, as with a collective effort, this would make for an interesting upcoming article!

Your thought and effort on two matters would be appreciated: Members buying the new Regency MX-5000, HX-3000 and MX-7000 are urged to send in your comments on these radios! Send them to Steve, Tech Topics! Also, it would be appreciated if you would sit down today and spend five minutes listing the frequencies (and departments) in your scanner and send them in, as reference for future articles for YOUR area!

UPCOMING RADIO SHOWS

December 1 & 2	Ft. Lauderdale Hamfest (Location unknown at this printing, but interested members can find out by monitoring Broward ham repeaters.)
January 12 & 13	Sarasota, FL Hamfest (dates based on last year's event)
January 27	Greenville, AL (date based on last year's event)
February 2 & 3	Greater Miami Hamfest and Show, Flagler Dog Track, Coral Gables

(We thank ARRL, SE Division, for this information!) Admission is charged for most events, and details and directions can be obtained by monitoring local ham repeaters in the 145 - 147 MHz band. All radio buffs are always welcome at these events!

Next month, we will have lots of new material! Please do your part and keep in touch with your editor! All of the articles in this index were the direct result of membership contributions! We thank those who made this column possible, and ask for your continued support! Without your contribution, the column won't be here!! (((73s))) Bill, WG4R.

PUBLIC SAFETY — SOUTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas:

Ken Pehl, 108 E. Centre St., Fredericksburg, Texas 78624.

Welcome to the December column. I would like to wish you all a very happy holiday season and may the best wishes be with you for the coming year as well.

The summer activity in this region is now history and the coming of fall is in the air (this being written in the middle to latter part of

Sept). Before beginning with this month's news, I need to make a few comments...

I would like to give the "Public Safety-California" column editors and supporting members a word of praise for their excellent and interesting coverage of the Olympic communications activity in the last several issues of the newsletter. I thoroughly enjoyed reading about RF saturation upon RF saturation. Wow! This ole country boy can not possibly imagine what it is like. Seriously, I really liked reading about the Olympic activities radio-wise since I was unable to attend it myself, and I am sure our other regional readers enjoyed it as well. Your coverage made me feel like I was there. You guys "done good"!

Next is a similar word of praise for the coverage of the San Francisco Democratic National Convention. Again a tip of the hat! I just wish the PS-So Central column could have returned the favor with extensive coverage of the Republican National Convention in Dallas. The active Texas members, it seems are just not concentrated in the right spots to provide similar comprehensive reports. Brad (OH-138), our only regular contact man in the DFW region, who is located in Ft Worth, was understandably unable to provide any serious monitoring reports as he had other problems on his mind with the illness and subsequent death of his mother at the time. Besides, his location was still quite some distance from the actual convention site. On top of that Brad is limited to his indoor antennas since he resides in an apartment complex. Brad, however, was able to provide one item which is included within this column along with some of his contributions from a few months ago that has been stacking up. Phil (TX-97) went to Dallas to listen to the convention and was able to verify, as our California members have found out, the extensive use of the federal DVP scrambling. Phil's report is also included herein. And that, folks, is the sum total of reports I have gotten on the convention since the middle of August.

Next, an apology needs to be extended to Ricky Ketchum, TX-???, for the omission of his name on the credit line in the article "City of Austin Radio Systems" in the October 84 column. Our apologies, Mr. Ketchum!

Before moving on to this month's contributions, I would like to ask if anyone has some time on their hands to please consider doing an index for the Public Safety-South Central columns from the time it first began until now. I noticed in the recent readership survey by the South East regional editor, the results favor an index to past columns. This is an excellent idea and one which I, myself, could make use. Unfortunately, I do not have the time to compile such a listing. If anyone out there would like to volunteer the effort, I would appreciate it greatly. Please write me if you would like to volunteer. As there is quite a bit of mail stacked up this month, I best get on with it in order to catch up.

From PHIL (TX-97): Phil has written several notes which contained a lot of new info. First of all, Phil advised he travelled to Dallas to listen in on the big political convention. While there Phil confirmed Dallas DPS are now using a more elaborate setup of the previously reported DPS "metro" channels of 155.445/154.695. Now there is a new twist -- Ch 8 -- 155.445 was a repeater! Phil confirmed Ch 8 as 155.445 R output (154.695 rptr input). Ch 7 is used two freq simplex, non-repeater -- 155.445 base/154.695 mobiles. The difference between ch 7 and ch 8 being whether the repeater was turned on or off. At least this was the set up during the convention.

(Editor's note: But there is evidence that this might be part of a permanent set up... This surprising news helps explain some of the recent rash of reports concerning numerous DPS radio stations being heard active on 155.445. Normal circumstances in the past have shown state agencies to use a slow and conservative "growth" pattern when phasing in a new radio system. The various reports received in the past year or so seemed to indicate an almost over night setup of 155.445 base stations across the state. It would not be surprising, when the facts are finally uncovered, if some of these over the air

reports were actually the result of high band tropo skip. The DPS common uplink control channel, 154.695, skipping up to the Dallas Ch 8 repeater, triggering that repeater, and then, by return skip, being heard on the output 155.445.)

Phil also confirmed the Dallas DPS office makes use of microwave links for relays between remote receiver sites and their dispatching office.

The Houston area TABC repeater is finally operational on 156.060 R output (154.905 rptr input). Phil has heard quite a bit of traffic on this new repeater and it sounds like the agents are enjoying the new communications capability as well.

But that is not all Phil has been able to find out about state agencies -- Phil also has been hearing some new type Parks & Wildlife Dept unit numbers. The unit numbers Phil has been hearing are 7650's series. (Ed. note: I have been hearing 7450's, 7460's & 5460's.) "Normal" P&WD unit numbers, until now, were xx20's and lower -- the xx being the appropriate regional and district numbers. Phil states these higher numbered units are game biologists, who apparently have been issued radios recently. It is also apparent that these game biologists are given unit numbers on a regional basis judging from the different first digits. Furthermore, State Parks Peace Officers are now under the game wardens for administrative supervisory purposes.

Thank you, Phil, for this much needed information on DPS info in the North Texas region and the P&WD unit number update. I know all our readers appreciate your news.

From Brad (OH-138): Brad has these tidbits for us this month---
--During the Republican Convention, Brad heard CBS Convention Center/Dallas on 153.290 very weakly. Brad was using an indoor antenna and was in Ft Worth, thus restricting his receiving capability.
--Fort Worth Independent School District (ISD) is on 453.250 KEV 407 (City of Ft Worth license)
--Mesquite ISD 154.515 KUM 975
--Crowley ISD 151.685 KNFF 295
--Dallas PD unit numbers -- 600's series are traffic units, 800's are detectives, and, as pointed out previously, patrol units are the same series of unit #'s as their radio channel -- for example, ch 1 units = 100's series, ch 2 = 200's, etc.
--Dallas FD is now simulcasting their EMS channel 154.130 with 460.575. DFD Fire dispatch still on 153.890, no change.
--RE: Arlington PD (from July 84 issue). 154.935 is the main dispatch channel. 155.070 is used for TCIC/NCIC computer quiries. Both channels are capable of being scrambled.
--RE: Lake Ray Hubbard patrol unit question (see May 84 col). Dallas PD 1900's series units work that area, using DPD Ch 10 - 460.225. (Ed. note: Brad got this info by attending the Texas RCMA Convention. See how a gathering of monitoring crazed listeners can help.)
--Ft Worth FD is now simulcasting their EMS ch 1 - 154.250 - on 460.525. Mobiles are no longer being heard on the VHF channel, suggesting a phase in of a new band plan.
--Bedford PD unit numbering -- 321-325 = district patrol units, 310-311 = Supervisors, 200's = Detectives, 190 = Animal Control Unit.
--Careflight has also been heard on 462.975 (see additional info in July 84 col)
--153.590 and 158.130 -- KCP 468 -- confirmed as North Richland Hills Water Dept. 153.590 was erroneously given in the July column as Halton City utilities.
--Texas Christian University (TCU PD) Ch 1 is apparently 482.6125/WAU 952 - security. Ch 2 is apparently 482.9875/KDL 375 - parking & maint. (Ed note: TCU Ch 2 was apparently the unknown college/state licensed frequency refered to in the July 84 issue.)
--482.9875 is also the Crowley PD dispatch. Callsign = KNO 403.
--Brad needs a unit number list for Parker Co. Sheriff Dept units (154.725), if anyone has such.
--Brad would like to hear from anyone who might have any info whether Tarrant Co. Medical Examiner's Office units are equipped with two way

radios, and if so, what channels do they use. If anyone has info, please advise.
--Brad would also like to know if anyone has any info on agency and usage for the state of Texas license KNGG 354 - 156.195.

Brad, please accept our condolences on behalf of our readers. As always, thanks for your info. I know your info will be of use to our North TX readers. If anyone can help Brad out with some of the questions he has, please do write in and let us know.

Bexar County

(complied by Ed, TX-45, Ed, TX-28, Charles, TX-25, & Phil, TX-97)

Sheriff Dept

F1	155.790	S	Main SO Dispatch
* F2	155.985	S	Constables & Small town Dispatch
F3	155.295	S	Reserve Deputy Ch -- rarely used
F?	154.950	m	Inter-city mobiles
F?	155.370	B	Inter-city base
F?	154.860	S	?unknown dispatch
F?	156.150	R	Bexar Co. Constables/Pct 2 dispatch (154.650 input)

* note -- the following dispatched by Bexar County: Castle Hills, Kirby, Live Oak (aux. service only), Shavano Park, & Windcrest PD's.

Bexar County Fire Dept's

154.250	S	Paging dispatch for all County VFD's -- dispatched under contract by Alamo Heights FD.
?153.770	M	use unknown

Bexar County EMS

155.340	S	Hosp/Amb. - Bexar MED net

EMS service provided by contract with SAFD/EMS & private companies

Miscellaneous

45.56	S	Bexar Co. Civil Defense network
?155.715	S	use?

OTHER BEXAR COUNTY MUNICIPALITIES

Some unconfirmed - unconfirmed freq denoted by "?"
All are simplex unless otherwise noted.

Location	Police Dept	Fire Dept	Local Govt
Alamo Heights	155.430 Disp. 460.025 SAPD 460.175 SAPD	?154.370	?155.100
Balcones Heights	154.995 Disp ?155.910 -use?	154.995 Disp ?154.205	
Bracken		154.445 R (154.890 in)	
Castle Hills	155.745	?154.220	
Converse	see Universal City		?153.945 ?154.980 R (input??)
Elmendorf			
Garden Ridge	see Schertz PD		
?Grey Forest	154.085		
?Helotes	B.C.S.O.	?453.150 Disp ?154.190 - use? 154.250 - Co. FD	?463.375 R
?Hollywood Park	155.760 ?154.830		
Kirby	?B.C.S.O. 154.860 Disp		?154.980

Leon Valley	154.725 R (155.580 in)	?154.145	?153.875
?Live Oak	154.890 R (input ??) also on Universal City PD	154.175 154.160	?153.995 ?153.845
Olmos Park	155.100 aux disp ?155.625 - use? 460.175 SAPD main disp	?154.370	
Schertz	155.625 R Disp (153.920 in)		
Selma	see Universal City PD		?156.015 ?158.745
?Shavano Park	B.C.S.O. ?453.500 R		?453.325 R
Terrell Hills	155.040 Disp * 155.430 *-10-28's w/Alamo Heights	?154.370	?155.040 ?155.100
Universal City	155.490 R Disp (154.740 in) 155.535 - use? 460.175 SAPD	?154.325	?158.775 ?158.745
Windcrest	155.670 R Disp (?155.310 in)		?155.145

Note 1: Alamo Heights and Balcones Heights PD's are licensed for 155.535 but neither use the freq. The freq is now used by Universal City PD.
Note 2: Universal City PD is a multi-agency dispatch center.
Note 3: More info needed on the following PD's: Grey Forest, Helotes, Hollywood Park, Live Oak, Shavano Park, and the Univ. of TX at S.A.

San Antonio Police Dept

Ch 1	460.025	R	S & SE Patrol Dist (Dist 4 & 5)
Ch 2	460.075	R	W & NW " " (Dist 7, 8, & 9)
Ch 3	460.125	R	Downtown " " (Dist 1 & 6)
Ch 4	460.175	R	N, NE, & E " " (Dist 2, 3, & 11)
Ch 5	460.250	R	Info Channel (computer inquires)
Ch 6	460.300	R	Traffic units ch
Ch 8	460.475	R	Car-to-car ch
Ch ?	155.565	R	Airport Police/Security (153.740 in)
Ch ?	155.250	S	Park Rangers

San Antonio Police Dept (Partial Numbering)

X = District Number

X0	District Sgt.
X1 - X9	Regular District Patrol Unit
X30	Uniform Detective Investigator
1247	Housing Projects Security
1300's	Small Cities/Municipalities PD's
1301	Alamo Heights Dispatcher
1303 - 05	Alamo Heights Patrol
1344	Olmos Park
1356	Terrell Hills
1390	Universal City
1500's	Park Rangers
1700's	School Patrols
2000's	Detectives
2100's	Robbery Div.
2200's	Homicide Div.

Public Safety - South Central continued

2400's	Auto Theft
2500's	Burglary Div
2600's	Theft Div
2700's	Vice Div
3000's	? ?
3616	Radio Technician
4000's	Patrol ? ?
4495	K9 Dog Team
5000's	Traffic
5532	Texas Highway Dept Courtesy Patrol Unit
5900's	Foot Patrol
6000's	? ?
7000's	Phone Extensions
8000's	? ?
9000's	PD Officials - Only last three digits used
001	Police Chief
002	Deputy Police Chief
099	Mayors Chauffer

SAN ANTONIO PD 10-CODE

(from Charles, TX-25:) (revised Jan. '84)

10-03 SAPD Assignment Number
10-05 Return to [location, office etc.]
10-06 Arrived at location
10-10 Cancel call
10-11 Request cover officer
10-12 Request Detective/Investigator
10-13 Request Sergeant
10-14 Request SWAT Team
10-15 Request Bomb Squad
10-16 Request Prisoner Transport
10-17 Request Traffic Assistance
10-18 Request Ambulance [EMS]
10-19 Request Wrecker [Acc,Pris./Priv.]
10-21 Request Coffee break
10-22 Request Dinner/Supper/Breakfast
10-23 thru 10-25 not used
10-26 Switch to another channel
10-27 Switch to Info channel
10-30 Officer in trouble
10-31 Shooting/Cutting (in progress)
10-32 Robbery, Business/Individual (in progess)
10-33 Robbery alarm
10-34 Rape (in progress)
10-35 Burglary (in progress)
10-36 Theft (in progress)
10-37 Theft, vehicle (in porgress)
10-38 Forgery (in progress)
10-39 Theft, Shoplifter
10-40 Active wanted/stolen
10-41 Criminal mischief
10-42 Sex offenses
10-43 Lost/found property
10-44 Missing person
10-45 Wanted Person
10-46 Contact the party
10-47 Contact the officer
10-48 Call station [ ] Ext. # ___
10-49 Call home
10-50 Disturbance/weapons involved
10-51 Fight/Assualt
10-52 Demented Person
10-53 Bomb threat
10-54 Prowler
10-55 Disturbance[Fam./Neigh./Boys]
10-56 Threats
10-57 Drunk/Drug suspect
10-58 Burglar Alarm [Silent/Audible]
10-59 Suspicious Person(s)/Vehicle(s)
10-60 D-O-A
10-61 Sick/injured party
10-62 Suicide/Attempted suicide
10-63 Fire/Arson
10-64 Abandoned Children
10-65 Abandoned Vehicle
10-66 Recovered stolen vehicle
10-67 Not used
10-68 Narcotic offenses
10-69 Vice offenses
10-70 Major accident [EMS on the way]
10-71 Minor accident [public/private]
10-72 Traffic hazard
10-73 D.W.I.
10-74 Request Intox. operator
10-75 Traffic assignment
10-76 Traffic stop
10-77 thru 10-79 Not used
10-80 Assist the public
10-81 Animal bite
10-82 Fireworks disturbance
10-83 thru 10-99 not used

Note: 10-1,10-2,10-4,10-7--10-9, 10-28, & 10-29 same as APCO list.

San Antonio Fire Dept

154.430	S	Fire Dispatch
154.355	S	Fire Admin.
155.220	S	SAFD EMS dispatch
154.415	x	old EMS dispatch - not used

San Antonio EMS - *operated by SAFD*

155.220	S	EMS Dispatch
155.340	S	"Bexar Med" net - Hosp/Amb.

MONITOR AMERICA

Boston Fire

(F-1) Operation
(F-2) Fireground
(F-3) Fireground
(F-4) Chiefs/Invest
(F-5) Page Dispatch
(F-6) Paging/Subwa
(F-7) Metrofire

483.1625R
483.1875R
483.2125R
483.2375
453.650
153.890

National

168.725R

Injured pedestrian
Seizure

Transit

Arkansas Emergency Medical Services Signals

Talladega
Talladega
Tuskegee

Unit Designators

Dept. of Highways & Transp

151.055R Districts 1, 7, 8
151.070R District 6
151.085R Districts 2, 4, 5
151.100R Districts 3, 9, 10

National Monuments & Pa

172.450

Horseshoe Bend National Military Park
Natchez Trace Parkway
Natchez Trace Parkway
Tuskegee Institute National Historic Site

171.675R
171.775R
417.375R

Metropolitan Area Intersystems

Law Enforcement

470.7875R
470.5625R

BAPERN 3 (Boston Area Police Er
(Systemwide Intercity Communica
BAPERN 4 (Intercity Use)
(Backup to BAPERN 3/Detectives
BAPERN 2 (North of Boston)
BAPERN 2 (West of Boston)
(South of Boston)
Control)

NOAA Weather Radio

162.475 Anniston
162.550 Birmingham
162.425 Columbia
162.475 Demopolis
162.550 Dozier
162.475 Florence
162.400 Huntsville
162.475 Louisville
162.550 Mobile
162.400 Montgomery
162.400 Tuscaloosa

State Police Troops &

Troop A
Decatur Post (Cullman, Lawrence, Limes
Hamilton Post (Fayette, Lamar, Marion & V
Quad Cities Post (Colbert, Franklin & Lauder

Sports, Amusements & Cultural Activities

Other Cities & Towns

Arlington: Police 471.1625; Fire 460.600
Belmont: Police 471.4125; Fire 154.
Beverly: Police 471.
Braintree
Brook
Camb
Canton
Chelse
Concor
Danvers
Dedham
Police 470.8125; Fire 154.310, 483.
Police 471.7625; Fire 154.160

MASSACHUSETTS/Boston Area

Area Code: 617
Police: 911
Fire: 911
Time: 637-1234
Weather: 936-1234
Greater Boston Convention
155.310, 33.50 Fire 153.950

Forestry Commission

154.355,
25 (Future)
3.830

Civil Defense

453.725R
453.650R
453.400R
453.425R

Birmingham & Demopolis Areas
Cullman, Monroe, Montgomery
Dozier, Florence, Mt. Ches
Huntsville Area

Radio Amateur Emergency Netwo

146.610 Bay Minette (RACES)
146.850 Cullman ARC (RACES)
146.730 Decatur ARC (RACES)
Decatur ARC (RACES)
auderdale CD (RACES)
dison County CD)
D ARC (RACES)

Boston Area News Media

161.730 WBCN (FM) Remotes
455.650 WBZ (AM) Traffic Helicopter
130.350 WBZ Traffic Helicopter
145.470 Emergency

REACT Teams

462.600 Alabama Council of REACT Teams (Huntsville)
462.550 Barbour County Highway Radio Patrol (Eufaul
462.650 Emergency CB Monitors REACT C-122 (Hun

Miscellaneous Frequencies

462.625 Chickasaw Community Patrol (Chickas
National Peanut Festival
Alabama Railroad Club, Inc. (H
Yacht & Country Club (K
Battleship Commissio

Special Sections on:

ORLANDO—CAPE COD
ATLANTIC CITY—LAS VEGAS/RENO
HOLLYWOOD

PAID ADVERTISEMENT

Colleges & Universities

154.800 University of Alabama
151.625 Univ. of North Alabar

Other Agencies

45.98 Corrections (Stat
53.650R Docks Departm
Health Depar

ARKANSAS

Highway Emergencies: 501/371-20

Tourist Office:
Department of Parks & Tourism
1 Capitol Mall
Little Rock, AR 72201
501/371-7777 or 501/371-1511
800/643-8383 (outside AR)
800/482-3999 (AR)

Arkansas State Police

44.74 (F-1) (Troops D, F, J, K)
44.62 (F-2) (Troops A, C, G, I, L)
44.66 (F-3) (Troops B, E, H)
44.78 (F-4) (Car to Car)
37.24B State Police Bases
154.785 Mobile Extenders

Each base may operate on F-1, F-2 or F-3.

Troop	Location
A	Little Rock
B	Newport
C	Jonesboro
D	Forest Cit
E	Dumas
F	Warren
G	Hope
H	Fort S
I	Harris
J	Clarks
K	Hot S
L	Sprin

Patrol Car Code (Not a reporting code)

Ocean Nora — Logging on air
Adam Robert — Logging off air

Arkansas State Police 10-Codes

10-10 Out of service (subject
10-11 Dispatching too rapidly
10-12 Officials or visitors pre

460.875
460 725
151.715
460.825
120.900
120.900

Fish & Game Commission

159.330
59.420
1.175
340

Wildlife Management (F-1)
Wildlife Management (F-2)
Game & Fish Enforcement
Little Rock Area

Shopping Centers & Malls

Delta
Republic
Republic
United

CLNC DEL
PRE-TAXI CLNC

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Civil Defense ■ Conservation
National Parks/Forests/Mmnts
State Transportation/Highway

Ham C.D./Emergency Nets
News Media/Traffic Copters
Hollywood ■ Nat'l Itinerants
Air, Marine, Ski Areas/Patrols

Fire/E.M.S. ■ REACT Teams
Weather ■ Travelers Info Svc.
Sports Teams, Race Tracks
Amusement Parks ■ Casinos

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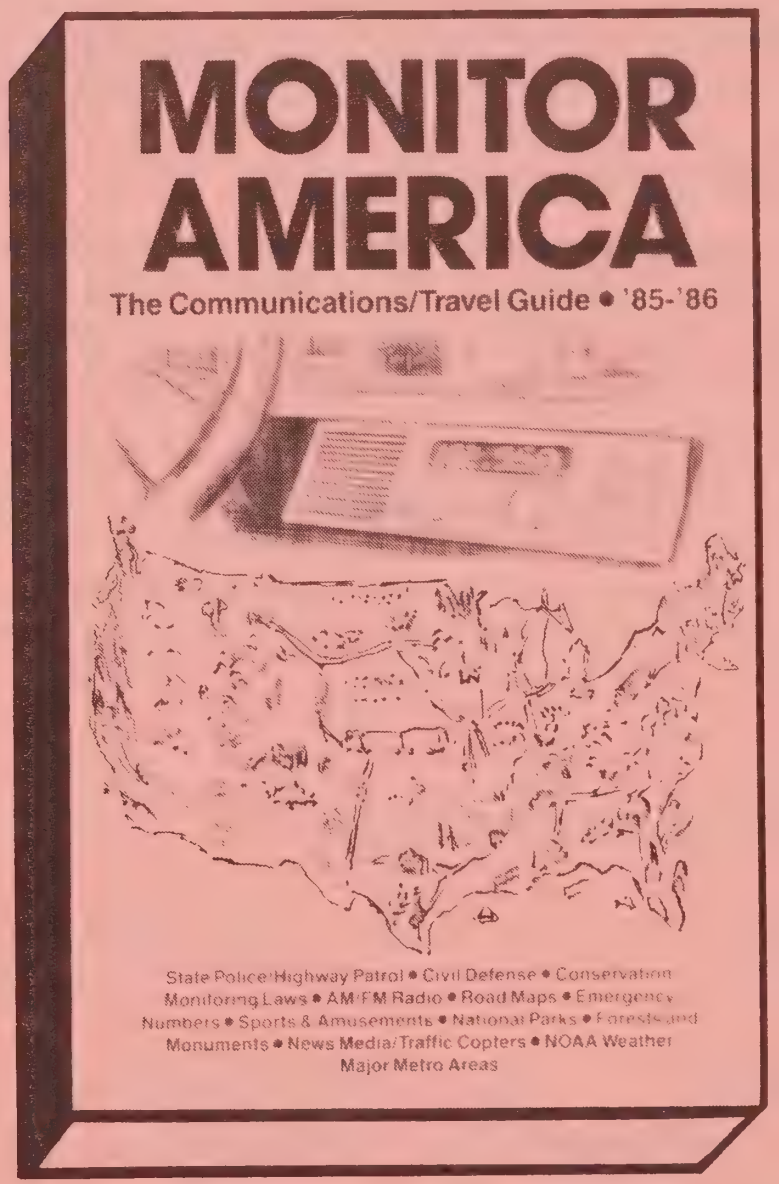
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Compiled by the editor of the **SCANNER MASTER NEW YORK METRO/NORTHEAST JERSEY GUIDE** Rick Prelinger and published by the long-time Public Safety Northeast column editor Richard Barnett, **MONITOR AMERICA** is the culmination of thousands of hours of research by devoted scanner enthusiasts. Although **MONITOR AMERICA** is a must for those of you who travel with a scanner, it is also an excellent resource for those who only monitor base units.

Because so many R.C.M.A. members were gracious in assisting Rick Prelinger, **MONITOR AMERICA** owes much of its detail and accuracy to the membership of this club. I'm glad, therefore, to be able to offer a special 15% discount off the cover price ($2.25 per book with this form) to all R.C.M.A. club members.

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P.O. Box 244
Natick, MA 01760

(Note: low power hand helds are used limiting reception range)

MED Channels
463.000--463.175] Telemetry
468.000--468.175]

Miscellaneous

158.865 S KWO 392 S.A. Civil Defense
155.835 S KJW 742 Hemisfair Security
153.800 S KJW 742 Hemisfair Security
154.025 R KTP 977 S.A. Water Board (input ??)
154.115 R KTP 977 S.A. Water Board (input ??)
158.760 R KKV 487 S.A. Street Dept/Public Works (input ??)
158.820 R KKV 487 S.A. Street Dept/Public Works (input ??)
158.925 S KKL 714 S.A. Animal Control Facitity (Brackenridge Park)
?453.350 R KJK 660 City Public Service
?453.450 R " " " "
453.600 R " " " "
?453.950 R " " " "
453.050 R KGP 799 S.A. Transit Authority (VIA buses)
453.225 R WZU 354 S.A. Transit Authority (VIA buses)

From MARVIN (TX-2): Marvin wrote to tell us a few interesting items:
--In the last few months several Houston area Volunteer Fire Depts have been heard using Houston FD Ch 1 -- 154.160. Some of those heard talking to the HFD dispatcher were Webster VFD, Clear Lake City VFD, and West University Place FD. Also a HFD ambulance was heard talking to West University Place FD on this ch. It seems to have grown into a sort of mutual aid type channel. HFD continues to use this channel for their own fire prevention units.
--Also heard were several departments using 462.975, like Ft Bend EMS and Brazoria Co. EMS communicating with Lifeflight dispatcher.
--Freeport FD has been noted on 153.770. This particular freq is not shown on the FCC microfiche indicating perhaps a newly acquainted freq.
--Holmes EMS (a Port Arthur based privately owned EMS company) is now using 463.725 for dispatch and ambulance to ambulance traffic. This channel is a shared community business repeater, so the channel has a lot of additional traffic, aside from the ambulance service.
--The Beaumont DPS radio tower was again struck by lightning recently knocking out the radio. In true "Aggie" ingenuity, a patrol car was driven up near a window at the building, the base antenna coax snaked out the window and hooked up to the mobile's radio along with a remote speaker and control cable, and a temporary "base" station was born. (Editor's note: This must be one of those rare situations where the dispatcher's office and the radio transmitter are on the same premises. Most DPS radio transmitters are worked by remote control -- either by leased telephone line link up or by microwave link up.)
--Lamar University uses 154.040/KKZ 951 for maint. paging.
--Station KJAC-TV uses 170.150 with its base at 1000 ft above ground, if anyone hears this one on skip.

Thanks for that interesting input, Marvin. I appreciate your support.

From DAVID, LA-31: Dave wrote to offer some further clarification and additions on the Washington Parish (La), Panther & Fisher Ambulance Services, as given in the August 84 issue. All three ambulance services <u>are dispatched by their own office.</u> All three are equipped to operate on the 39.50, the La Sheriff/LSP mutual aid common channel, in order to co-ordinate with law enforcement agencies. 39.50 is <u>not</u> used for dispatching these ambulance services, unlike what may have been implied in past newsletter coverage of these agencies. In addition Washington Parish Ambulance Service is now equipped with the UHF MED telemetry channels. David wishes to further correct the data in the August 84 newsletter -- the callsigns KKD 368 & KNGQ 580 are licensed to the Bogalusa Sheriff Dept, <u>not</u> to the Panther & Fisher Ambulance Services, as stated in that column. Furthermore -- Bogalusa Sheriff Dept F1 was 39.<u>64</u>, <u>not</u> 39.60 as given. F2 - 39.50 is <u>not</u> a dispatch channel for the Sheriff Dept, but rather a law enforcement mutual aid channel used by all agencies, including the La State Police. F3 - is a repeater output channel; however, 155.640 is <u>not</u> the input to the repeater. The input channel is not known at this time. F4 - 155.640 is used simplex for Bogalusa PD's car-to-car channel.

And with that we shall say so long. We are very close to, if not already over, our monthly allotment of space. Thanks again to all who contributed. Till next month.

PUBLIC SAFETY — NORTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details and questions as follows - Iowa, Kansas, Missouri, Nebraska, N. Dakota, South Dakota, and Minnesota:

Rudy Brockmueller, RR 2, Box 50, Freeman, SD 57029

Yesterday's brief snow flurries were a fitting introduction to a column that will appear in the December issue. South Dakota truly seems to be a land of infinite variety.

After last month's reasonably long column, this one will be very short. The responses are already beginning to come in at this time from the survey in the October and November issues. If you have not yet responded, please do so soon. I would like to compile these and be able to draw some conclusions as to the direction this column should take.

A Nebraska member would like an up-dated copy of Omaha Police district boundaries. I'd suggest that a complete public safety profile for Omaha would be nice if any one would have this information.

On to a short list of frequencies from Kansas. Until next time, tell a monitoring friend about RCMA.

KANSAS-

Concordia - Salina Area
39.58 Concordia PD (Statewide)
39.70 Concordia PD
There may be a frequency change coming for Concordia in the near future. (Ed.)

Hays - Ellis County Area
39.560 Hays PD
154.445/153.770 input - Hays Fire Dept.
44.980/44.820 Highway Patrol
39.580 Statewide Sheriff
39.460 Statewide Intercity
Ellis County EMS uses Med. 7 w/repeater.
Hospital traffic uses Med. 9 and 10, no repeater.
EMS pagers are on 462.925.

PUBLIC SAFETY — GREAT LAKES:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

Jack Waterman, 466 Kings Way, Mundelein, IL 60060

Hi! Welcome to Public Safety/Great Lakes for December, 1984. I hope your holidays were enjoyable. If you're anything at all like me, you had no shortage whatever of things to be thankful for on Thanksgiving.

The mail box continues to bring me all kinds of good things for the column. Besides the faithfuls such as MIKE [IL-014], JOHN [IL-012], DENNY [federal editor], LARRY [WI-005], and LARRY [MI-001], this month I've heard from SCOTT [IL-198], BOB [IL-269], ROBERT [MI-108], THOMAS [IL-080], SUSAN [MI-138] and several others whose names will appear next month. I really do try to acknowledge everything you send, so if you don't get a short note at the very least within a couple of weeks after you send something to me, write again. If you're feeling really cordial, call - some of you do that now. Enough rambling - let's get started or Christmas will be here before you get any data!!

--

MEPSS - MICHIGAN EMERGENCY PUBLIC SAFETY SYSTEM - The following contribution comes from LARRY [MI-001], by way of JOHN [IL-012]. Some comments and notes have been added by JOHN. The primary source of this material is the June, 1984 issue of the "Michigan Emergency Preparedness Plan."

I. Purposes: to provide a uniform statewide freq (155.865 mHz) for direct communications by all elements working together in a disaster situation. This is a high band system limited to departments using high band radio equipment. [emphasis by JOHN]

II. Concept of operation
   A. Base stations - Bases are strategically located at MSP posts, sheriffs depts, and local police depts thruout the state for emergency contact with any mobile units equipped with ("e/w") the MEPPS freq. A list of these bases and call signs follows at the conclusion of this contribution.

   B. Mobile units - There are approximately 3000 mobile units in the system from various depts. MSP has some units e/w high band radios which can use MEPSS.

   C. Handi Talkies - The MEPSS freq is installed in channel 2 of the H/T's used with vehicular repeaters. MSP's mobile extenders probably operate on 154.695 mHz as channel 1, tying into the low band 42 mHz radios. These H/T's have a short range, approximately one mile, which limits use to on-scene communications. MEPSS can be used to communicate with other city and county officers who are also e/w this freq.

   D. Frequency Control - MEPSS will be used as a mobile emergency channel for mutual aid purposes. MEPSS will not be used within the users' normal service area for day-to-day operations. Base stations and other local government participants such as fire depts, civil defense units, and public works depts shall have prior approval of the Michigan Public Safety Advisory Committee.

III. Organization - The commanding officer, MSP Operations Division, is responsible for establishing the MEPSS in the Emergency Communications Centers.

IV. Tasks and Execution: Operating Rules
   A. The MEPSS freq shall not be used within normal service areas for day-to-day operations.

   B. The MEPSS freq shall not be used as an alternate for other available facilities.

   C. All established bases in the MEPSS system shall continuously monitor the MEPSS freq at all times.

   D. Base station originated traffic shall be confined to inter-agency coordination.

   E. Plain language shall be used when transmitting on the MEPSS freq.

JOHN's comments: the MEPSS freq is quite similar in use and operation to the NLEEF freq 155.475 mHz as it is used in most other parts of the country [in Illinois, it's called "ISPERN"] . Frankly, I'm quite surprised that Michigan has made no attempt to follow the surrounding states and switch operations over to NLEEF. Right now, this system is virtually unused in eastern and northern areas of the lower peninsula, where the primary means of law enforcement communications is via the 39 mHz low band. I also realize that such a move to NLEEF would take some time plus a good deal of funds, the latter of which is in short supply in the state [as well as in my household - ed.]. Even MSP's move to 42 mHz repeaters for dispatch purposes has been quite slow to say the least. Limiting the use of the system to depts using high band equipment also seems not to be the greatest rule, either. Those agencies using the low band, UHF, or even 800 mHz for primary means of communication should be able to go out and license separate high band mobile radios and portables.

Approximately 49 Base Stations with MEPSS capability are on the air. They are listed below. Not all of these are listed in the latest "Police Call;" licensing data are from other sources.

MSP District 1	
MSP General HQ - East Lansing	KDR331
MSP Post 14 - Ithaca	KDR354
Livingston SD - Howell	KXH399

MSP District 2	
An Arbor PD	KXJ254
Detroit PD	KXA201
Macomb SD - Mt Clemens	KXJ247
Monroe SD - Monroe	KXJ248
Oakland SD - Pontiac	KXH410
St Clair SD/Port Huran PD	KXH400
Wayne SD - Westland	KWO335

MSP District 3	
MSP Post 31 - Bay City	KDR345
MPS Post 32 - East Tawas	KDR344
Huron SD - Bad Axe	KXM781
MSP Post 34 - Sandusky	KDR342
Genessee Co Comm Ctr - Flint	KVV664

MSP District 4	
Battle Creek PD	KDR328
Branch SD - Coldwater	KVQ671
Calhoun SD Central - Marshall	KLP970
Jackson SD - Jackson	KXE784

MSP District 5	
Berrien SD - St. Joseph	KXE787
MSP Post 51 - Paw Paw	KDR334

MSP District 6	
Clare SD - Harrison	KWQ753
Kent SD - Grand Rapids	KXE786
Lake SD - Baldwin	KXE785
Mecosta SD - Big Rapids	KXE782
Muskegon SD - Muskegon	KXE788

MSP District 7	
MSP Post 74 - Alpena	KDR316
Benzie SD - Beulah	KXJ252
MSP Post 72 - Cheboygan	KDR318
MSP Post 73 - Gaylord	KDR317
MSP Post 75 - Houghton Lake	KDR315
Mason SD - Ludington	KXE781
MSP Post 77 - Manistee	KDR313
MSP Post 78 - Petosky	KDR312
MSP Post 71 - Traverse City	KDR319

MSP District 8	
MSP Post 90 - Calumet	KDR302
Dickinson SD - Iron Mountain	KDR306
MSP Post 85 - Gladstone	KDR307
MSP Post 92 - Iron River	KXJ249
MSP Post 88 - L'Anse	KDR304
MSP Post 84 - Manistique	KDR308
MSP Post 91 - Munising	KDR301
MSP Post 81 - Negaunee	??
MSP Post 82 - Newberry	??
Ontonagon SD - Greenland	KXJ253
MSP Post 83 - St. Ignace	KDR309
MSP Post 93 - Sault St. Marie	KXJ250
MSP Post 89 - Stephenson	KDR303
MSP Post 87 - Wakefield	KDR305

--

Thanks, JOHN and LARRY, for the team effort on that contribution. You guys make my job easier with your dependable input. Could be because you've had experience in the editor's chair, eh?

Let's remain in Michigan for a while, and run the contribution received from ROBERT [MI-108], who says he's made several trips to different areas of MI lately and picked up a little information using his new Regency MX3000. Here's his list of confirmed uses:

Alcona County	
Alcona County Fire	154.145

Arenac County	
County Sheriff - Mobiles	39.70
County Sheriff - Base	39.92

Bay County	
County Fire [KQ1238]	154.310
Bay City Fire	154.400
Bay City Police	155.625
County Sheriff	155.790

Clinton County	
Area Police Depts	460.325

Eaton County	
County Fire	33.94
Delta Township Fire	33.94
County Police	155.310
County Police	460.425

Jackson County	
County Central Fire Dispatch	154.130
County Sheriff	155.595

Kent County	
Grand Rapids Fire	154.130
County Fire	154.370
Cascade Fire	154.370
Sparta Fire	154.370
Grand Rapids Police	154.860
Grand Rapids Police	155.655
Grand Rapids Police	155.790

Livingston County	
County Sheriff	37.14
County Fire	154.010

Muskegon County	
County Fire	154.190
Muskegon Police	154.650
Muskegon Police	155.490

Genesee County	
Mt Morris Fire	154.145
County Fire	154.190
Flint Fire - F1	153.890
Flint Fire - F2	154.235
Flint Police	155.070
Flint Police - LEIN	155.250
County Sheriff	154.845
County Sheriff	155.445
County Sheriff	155.580
Huron County	
Harbor Beach Police	46.42
Ingham County	
Lansing Fire	153.770
Lansing Fire	154.325
Lansing Fire	154.415
Lansing Police	460.200
Lansing Police	460.300
Lansing Police	460.400
County Sheriff	460.350
Ionia County	
County Sheriff	154.710
County Sheriff	155.310
Iosco County	
County Sheriff Base	39.64
County Sheriff Mobiles	39.74
Oscoda Twp Fire	46.10
Whitney Twp Fire	46.10
Tawas City Fire	154.145
East Tawas Fire	154.415
Ogemaw County	
West Branch Fire	154.190
County Sheriff	39.84
St Clair County	
Sarnia, Ontario Police	142.455
Sarnia Twp, Ontario Police	142.800
County Fire	154.370
Marysville Fire	154.415
Port Huron Fire	154.415
Port Huron Police	460.450
County Sheriff Boats 4 & 5	460.350
Saginaw County	
Saginaw City Fire KQD365	154.130
County Fire KBG934	154.250
Saginaw City Police Dispatch	155.010
Saginaw City Police	155.310
Saginaw City Police	154.725
County Sheriff	155.550
County Sheriff	155.640
Sanilac County	
County Sheriff	39.86
Tuscola County	
County Sheriff	39.54
County Sheriff	39.66
County Sheriff	39.82
Washtenaw County	
County Sheriff	37.20
County Fire	154.250
Ypsilanti Police	155.130

Thanks, ROBERT, for taking the time to record your finds on your travels and to send them in to PS/GL. Confirmed usage info is what sets us apart from the commercial lists based upon outdated license data.

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OHIO Let's move south one state, into Ohio, and run the second list submitted by BOB [OH-157]. If you read last month's column you saw his first contribution.

33.80	Granville, Heath, Hebron FD
33.86	Buckeye Lake, Franklin County, Gratiot, Granville, Kirkersville, London, Pataskala, West Jefferson FD
33.90	Guernsey County FD including New Concord and Old Washington
33.92	Kirkersville, Pataskala FD (again)
33.94	Antrom, Belmont, Wintersville FD; Guernsey, Harrison, Jefferson County FD's
33.98	Norwich and New Concord FD
39.52	Jefferson County Sheriff
39.58	Jefferson County Sheriff
45.48	Wintersville PD
46.38	Lafayette and Wintersville FD
46.42	Lancaster FD
46.46	Lancaster FD
153.980	Steubenville FD
154.100	Newark FD
154.145	Zanesville FD
154.250	Plain City FD
154.280	Statewide Mutual Aid Freq
154.325	Mingo Junction FD
154.355	Cambridge City FD
154.370	Lafayette and Newark FD
154.430	Bellaire, Belmont County, and Martins Ferry FD
154.515	Fort Steuben Mall Security
154.650	Steubenville PD

Public Safety - Great Lakes continued

154.875	Steubenville PD
155.295	Harrison County EMS
155.340	Harisson County EMS ["HEAR"]
463.175	Wintersville EMS

A pretty impressive contribution from a relatively new member of RCMA! BOB joined us in February of this year and made the catches listed over the past two months with his HX-1000. Thanks again, BOB.

ON WEST TO ILLINOIS: Notice how we skipped over Indiana? Notice how we didn't continue south to Kentucky? Are there really RCMA members there? Actually, that's not entirely fair, as Carol Ruth sent me a list submitted by a potential new member with his first inquiry about RCMA membership. HI ROBERT, and thanks for the listings on Indianapolis and Lafayette. I'm afraid I can't reprint the material, as it's copyrighted by Electra, but if members have questions about freq's in that area, I hope they'll write in with them as ROBERT's four page list is packed with data.

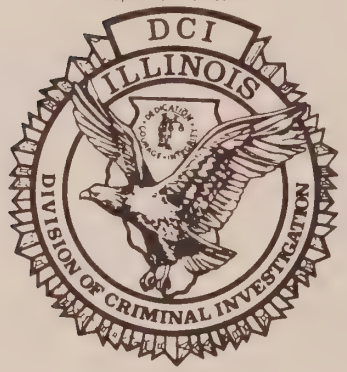
I promised you something on the Illinois Dept of Criminal Investigations this month, at the close of last month's column. Regular readers are familiar with the in-depth reporting on organization and frequency use within the Illinois Dept of Law Enforcement provided by our former editor, JOHN. He's told us that DCI zones do not correspond exactly with ISP districts and he's provided us with maps showing ISP district boundaries. Well, this month we have a map showing DCI zone boundaries, courtesy of our Federal editor, DENNY. You'll find it somewhere nearby, depending where Carol could best fit it in. Remember, DCI uses 154.905 mHz for most routine traffic statewide. For further details on DCI freq's, refer back to one of JOHN's very thorough earlier articles.

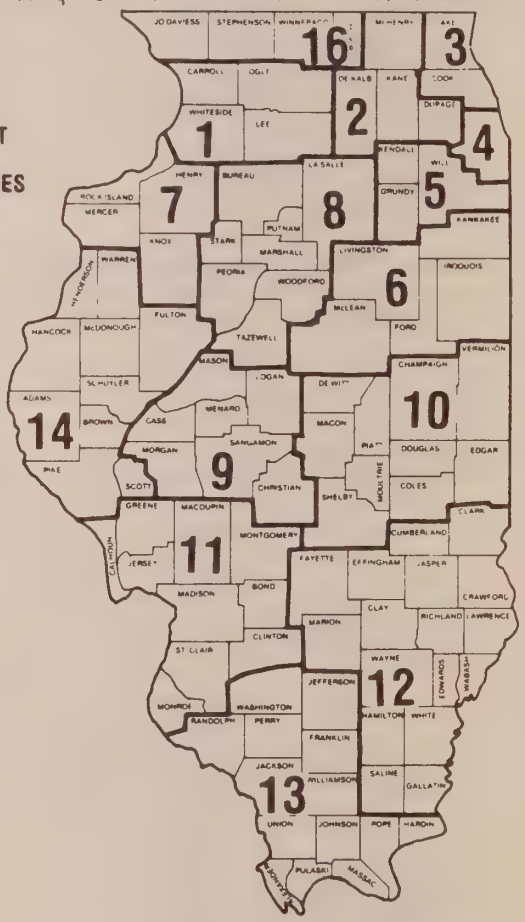
Thanks DENNY, for the input.

ILLINOIS DEPARTMENT OF LAW ENFORCEMENT
DIVISION OF CRIMINAL INVESTIGATION
COMMAND OFFICERS AND PUBLIC SERVICE ZONES

WILLIAM DOSTER, DCI DIRECTOR
500 North Armory Building
Springfield, IL (62706)
(217) 782-6053

ASSISTANT DIRECTORS:
Ronald H Grimming
Richard Kozak
Stephen J Marada





ZONE	OFFICE ADDRESS	PHONE
1 Sterling	3107 Lincolnway, Sterling, IL (61081)	(815) 625-4204
2 Elgin	595 S State, Elgin, IL (61020)	(312) 697-6430
3 Des Plaines	477 S. River, Rd., Des Plaines, IL(60016)	(312) 827-9770
4 Palos Hts.	12800 S. Austin, Palos Heights, IL (60463)	(312) 371-4693
5 Joliet	General Delivery, Joliet, IL (60435)	(815) 726-9172
6 Bloomington	808 Eldorado Rd., Bloomington, IL (61701)	(309) 663-9531
7 Moline	600 Hillcrest Dr., E. Moline, IL (61244)	(309) 755-8622
8 Peoria	8811 N. Pioneer Rd., Peoria, IL (61615)	(309) 692-2100
9 Springfield	1035 Outer Park Dr., Springfield, IL (62704)	(217) 782-4750
10 Champaign	2125 S First, Champaign, IL (61820)	(217) 333-1211
11 Collinsville	101 W Main, Collinsville, IL (62234)	(618) 345-2700
12 Effingham	P.O Box 1345, Effingham, IL (62234)	(217) 536-6166
13 Marion	2209 W Main, Marion, IL (62959)	(618) 997-9431
14 Macomb	P.O Box 483, Macomb, IL (61455)	(309) 837-9981
16 Rockford	810 E State Rockford, IL (61104)	(815) 987-7440

CHICAGO FIRE DEPARTMENT AMBULANCES What would a PS/GL column be without something good from MIKE [IL-014]? This month we have the complete list of CFD ambulances, showing where they're located and what engine or truck company they share quarters with. Best of all, the list came typed and with a seven inch margin - nothing for your editor to do but pass it on to Carol! [Maybe I shouldn't say that; if everyone submitted their material that way, why would you need an editor for PS/GL?? Forget I mentioned it!!] Thanks MIKE, for another excellent contribution for our readers.

AMBULANCES - CHICAGO FIRE DEPARTMENT - 1984

AMBULANCE	STATION	ADDRESS
1	E-50	5000 S. Union Ave.
2	O'Hare	International Airport
3	E-43	2179 N. Stave St.
4	E-19	3421 S. Calumet Ave.
5	E-75	10615 S. Ewing Ave.
6	E-78	1052 W. Waveland Ave.
7	E-7	4911 W. Belmont Ave.
8	E-123	2215 W. 51st. St.
9	E-46	3027 E. 93rd. St.
10	E-95	4005 W. West End
11	E-98	202 E. Chicago Ave.
12	E-32	5559 S. Narragansett Ave.
13	E-70	1545 W. Rosemont Ave.
14	E-54	7101 S. Parnell Ave.
15	E-117	4900 W. Chicago Ave.
16	O'Hare	International Airport
17	E-92	3112 W. 111th St.
18	E-15	8029 S. Kedzie Ave.
19	E-28	2534 S. Throop St.
20	E-86	3918 N. Harlem Ave.
21	E-34	4034 W. 47th St.
22	E-72	7974 S. South Chicago Ave.
23	E-113	5212 W. Harrison St.
24	E-47	432 E. Marquette Rd.
25	T-61	11659 S. Avenue "O"
26	O'Hare	International Airport
27	E-64	7659 S. Pulaski Rd.
28	E-5	324 S. Des Plaines Ave.
29	T-24	10400 S. Vincennes Ave.
30	E-129	8120 S. Ashland Ave.
31	E-83	1200 W. Wilson Ave.
32	E-124	4426 N. Kedzie Ave.
33	E-107	1101 S. California Ave.
34	E-109	2358 S. Whipple
35	E-16	4005 S. Dearborn St.
36	E-61	5349 S. Wabash Ave.
37	E-82	817 E. 91st. St.
38	E-60	1150 E. 55th St.
39	E-119	6030 N. Avondale Ave.
40	E-110	2322 W. Foster Ave.
41	E-1	419 S. Wells St.
42	E-42	55 W. Illinois St.
43	E-22	605 W. Armitage Ave.
44	E-57	1244 N. Western Ave.
45	E-26	10 N. Leavitt St.
46	E-89	3945 W. Peterson Ave.
47	E-108	4625 N. Milwaukee Ave.
48	E-56	2214 W. Barry Ave.
49	E-116	5955 S. Ashland Ave.
875 (Critical Care)	E-22	605 W. Armitage Ave.
871 (Cycle One)	E-5	324 S. Des Plaines Ave.
872 (Cycle Two)	E-5	324 S. Des Plaines Ave.
891 (Mini Ambulance)	O'Hare International Airport Terminal	
892 (Mini Ambulance)	O'Hare International Airport Terminal	

RED CENTER I received a letter from BOB [IL-269] this month, forwarded by Ginny Slick. It seems that he, too, is inconvenienced by the long lead times between when a letter is written and submitted, and when it appears in the Newsletter. Working in the middle of the process, I've begun to appreciate just how complex the entire production effort is, and I'm finally convinced there's no better way. As I wrote to several correspondents this month [including BOB], don't let the delays discourage you. BOB writes

> Before I begin describing some of my favorite "hidden" freqs, I hope to clear up something that has been rather confusing to scanner buffs in this area [north suburban Chicago]. Just as recently as the May issue, Larry [IL-052] provided a rather informative piece on RED Center ["Regional Emergency Dispatch"]. But he was incorrect in stating that RED Center is located in Niles. Allow me to provide you with the history of RED , in hopes of clearing up this matter.
>
> The purpose of RED Center is to dispatch the closest firefighting equipment or paramedic unit to the scene, regardless of which community that equipment is coming from. This saves time, property, and lives. RED Center opened in Niles Station No 2 in the early 1970's, with Niles. Morton Grove, and Maine Twp participating in the program. The program impressed many other communities in the area and they expressed a willingness to join. But Niles Station 2 was pressed for space and it could not effectively expand its operations unless more space was available for the additional computers, radio equipment, and personnel that would be required for quicker responses and heavier radio traffic. Glenview, one of the communities wanting to join,. Was also considering building a new and larger station to meet the needs of its growing district,. Glenview offered to alter its plans for the new station in order to house RED Center, and to provide the additional space that was so desperately needed. The relocation of RED Center to Glenviewee would also allow it to be more centrally located, allowing even more communities to join the program. Niles is located in the extreme southwest sector of RED Center's service area, making it less feasible as a dispatch center. The move of RED Center from Niles Station 2 to the new Glenview Station 6 occurred in 1976, and it remains there to this day.
>
> Today Niles Station 2 maintains its original equipment for use as a standby dispatch center if anything should ever happen to Glenview Stationn 6. It is also interesting to note that RED Center will continue to expand, as Northbrook plans to join the program with its two stations within the next year. This will bring to 11 the number of stations served by RED Center, with room in its Glenview facility to expand even further.

BOB then provides these freq's:

470.7125	NORCOMM - Glenview, Morton Grove, Niles PD's
155.250	Glenview PD F2, Northfield, Winnetka, Willmette, Glencoe PD F10
155.880	Glenview PD f3, Glenview Radio Alert Team, Glenview DPW, Morton Grove PD F2, Morton Grove DPW
151.025	Northfield Twp Road and Bridge Dept, Maine Twp Road and Bridge Dept

> Notes: The Glenview Radio Alert Team (G.R.A.T.) uses 155.880 mHz between 8:00 pm and 12:00 am C.D.T. on Friday and Saturday evenings and during special local events to communicate with the Gelnview PD. This group is similar to other citizen vounteer patrol groups which aid local law enforcement agencies during periods of high criminal activity. This group of roughly 20 members puts about six cars on the street during these periods each week, and one can also monitor their car-to-car "chat" on CB channel 27. They identify themselves with unit numbers ranging from 100 to 130, and the letter G precedes each unit number.
> Can anyone explain the tones which come just before transmissions by NORCOMM bases, using the shared repeater system??

ROBERT also sent info on Glenview DPW unit identifiers, a newspaper article on GRAT, and comments on the importance of NWS alert monitors. Unfortunately, I'm having to bring this to a close, so that won't appear. Thank you, ROBERT, for your input. I think the wait since May was worth it anyway....

--

DOWNSTATE It's always good to hear from members away from the Chicago metro area. This month THOMAS [IL-080] checks in with some updates:

> Murphysboro now uses 155.56 mHz as primary freq; 39.50 is retained for backup
> Jackson County Sheriff uses 155.010 mHz

Carbondale PD uses 155.755 mHz
Jackson County EMS Paging is on 155.100 mHz
Thanks for the insights into your area, THOMAS.

RCMA CHICAGO CHAPTER MEETING Our last meeting was packed with information and good fellowship, as always. Those of you who are in the area and haven't attended yet, or for a while, really should come out. The schedule and locations are shown inside the front cover of the Newsletter every month. You might also be interested in a more Informal get-together, one that's not really under the umbrella of RCMA. A smaller number of Chicago area members meet on Friday evenings, sometimes just to chat and sometimes to discuss matters that aren't allowed by the RCMA restrictions related to classified material. There's always a minimum of five days' notice, so if you think this might be of interest, contact either BOB QUINLAN, the Beginner's Corner editor, or BRANDT NEIMUTH, the Business column editor. Their addresses are at the tops of their columns.

We learned that ISP District 2 assumes responsibility for I-290 on January 1, 1985. Mobile extenders for District 15 cars are coming: 65 this Fall and another 55 in Spring of 85. They'll be eight channel radios - but what will the eight channels be??

Shadow Traffic Radio reports may be heard on 462.600 mHz
The Metropolitan Correctional Center has been monitored on 170.875 mHz [KLV312]
The Mayor's bodyguards use 155.970 mHz [I'm glad I'm not a Chicago resident - I might be getting an unwelcome visit after revealing that!!]
The Dept of Agriculture/ National Forest Service has taken delivery of portable radios in Wisconsin with the following freq arrangements:

Type 1	Type 2	Type 3
39.14	44.72	39.28
39.18	44.64	39.50
39.32	46.38	39.58
39.64	46.46	38.18
39.66		39.80
39.82		39.80 w/tone
39.84		39.82
		39.84

What will these be used for??
Tentative dates for RCMA Chicago 1985 meetings were chosen as follows:
JAN 19 MAR 9 APR 20 JUN 8 AUG 3 SEP 21 NOV 16
If you'd like to cast a vote, pro or con, write to me and I'll pass the info on to our Chapter Moderator. Or better yet write directly to:

Edward Robert Sirovy [IL-004]
311 S Williams
Westmont, IL 60559

NEXT MONTH More new listings from LARRY [WI-005] (where does he get his inside info?), updates and corrections to a previous article on TRICOMM, provide by KEVIN [IL-274], insight into how to request permission to install a scanner in your car in Michigan [and what might happen if you don't] from an anonymous source, some eye-openers on IL Dept of Corrections from SCOTT [IL-198], confirmed Indiana highway dept listings from RICHARD [MD-068], more confirmed listings from SUSAN [MI-138] which she monitors when the skip is out, and some more of PHIL's [MI-130] great material which was scheduled to run this month, but I ran out of time.

In closing, I'd like to mention receiving a copy of Fox Scanner Radio Listings for the Toledo area from NORM SCHREIN. While I can't guarantee the accuracy of every entry, since I don't live near Toledo, I can tell you as I told Norm that the depth of the detail provided is very impressive. The Toledo edition alone is over 125 pages long with excellent typography and full-color covers. NORM and Fox have published 20 guides to date. For more info and a list of his books, give NORM a call at 800+543-7892.

That's it for this month. Turn up the volume on the scanner a bit and reduce the squelch - maybe you'll pick up North Pole One this year. Anyway, my family joins me in wishing you all the joy and peace this season can bring, especially while you're following the column motto:

TRACK 'EM DOWN WRITE 'EM UP SEND 'EM IN !!

Best regards (don't forget Rudolph's oats),

PUBLIC SAFETY — NORTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — New England states, New York, Pennsylvania, New Jersey, Maryland, Delaware, and District of Columbia:

Richard Barnett, P.O. Box 428, Newton Highlands, MA 02161.

Massachusetts

Various important notes from many members and lots of monitoring:

The State Police now use 42.500 in the western part of the state for car-to-car communications. In the eastern half of the state, 42.460 is used. Also in the western region of Massachusetts, 44.740 is now also being used as a pager for local judges. 154.920 is the new vehicle extender channel. The Pittsfield State Police barracks (L-4) has moved to Cheshire, Mass. and the Monson State Police barracks (L-3) closed last year while a new barracks is soon to be constructed in Springfield to replace it. Unmarked cruisers for speeder nabbing have begun operations as of Labor Day. Connecticut has long used these cars.

Boston Police has applied for 800MHz frequencies. This is some of the worst news I've heard in a while. From what I can make out, they have only applied for use with a small number of cruisers so either they will be testing the equipment for a future changeover, or they will perhaps move some of their undercover units (now fascinating to listen to on 460.075) or command units to the 800 range. I'll try to dig up some more info on this as soon as I can.

There have been rumors that there was some thought put to switching BAPERN towns to 800MHz. Talk about your all time disasters! BAPERN has within the past six years or so switched Boston area communities to a common 470MHz network which seems to be working very well. Why there would ever be any consideration of going to 800MHz is beyond me, especially when the regional channels for the system are so rarely used. It's not fair for me to speculate without knowing any of the facts (or, for that matter, if this rumor has any basis at all), but if there has been some talk of moving up, in my mind it could only be to confound this region's very enthusiastic group of monitors who enjoying listening in. Maybe this is completely unfair of me, and if I'm wrong I'll make an immediate apology, but this talk just gives me a sour feeling when I see so many local businesses switching to trunked systems.

Speaking of BAPERN, it is believed that the "Council Control" can be heard on 471.7125. Other new updates include: the Bristol County District Attorney on 483.2875, the Plymouth County Commissioners on 483.7375 and numerous state prisons on 453.500, 453.700 and 453.550 (more on this in a later article). From Dick Stedman, a few western Mass. notes: 463.025 is the primary channel for Springfield C-MED operations...Easthampton Fire is now using 154.415... Agawam may use 154.235 in the future, but they are now still on 155.055 while Southwick, often shown as operating on 154.235, is still using 33.460 and plans to stay...

New York

A number of months ago a member wrote in and asked what agency was operating on 499.6125 in New York City. I was extremely pleased to see that there was truly an excellent response from this column's readers who attempted to give this curious member an answer. I thank all of you who wrote in. It really showed how the RCMA has a vibrant membership who are fascinated enough to go digging at monitoring problems while, at the same time, work hard to help out a fellow member. Anyone who has questions such as these should write in as they are almost sure to get results!

Carl Gerosa III (NY-117) provided perhaps the most conclusive answer to the question. Carl probably knew, first off, that the 499 range is not licensed by the FCC as opened for communications use in the New York City area (one region that I knew does use this range is the Maryland-D.C. area). He writes, 499.6125 is 478.2125, the New York City EMS F-2 Bronx Dispatch. I punched in the 499MHz frequency into my M40- and recognized the transmission and put the 478MHz next to it only to hear the same thing. Carl thought that perhpas this was an intermod problem, but what it was was an image that the Regency unit inherently puts out. Either signal would come over strongly, but the 478MHz channel is the exact one. Thanks Carl and again to all of you who helped out.

In the March 1984 issue of the newsletter an anonymous contributor wrote in on the New York State Department of Environmental Conservation Police. Art Williams (NY-022), would like to know the contributor if he could as there were a few errors in the listing which should be corrected and he would like to help the anonymous member out. Art writes that 159.300, 159.465 and 159.255 are all channels which will be used in the future while 31.980 is a relatively unknown administrative channel. Art told me there was a problem with the New Paltz listing, but unfortunately I garbled my notes and I'm not quite sure what it is -perhaps there is no office or radio there.

Art also writes in with the following data: The Poughkeepsie City Fire Department is moving to the UHF band. The 46.440 Dispatch channel will eventually be phased out.

46.440 (KEB891) Dispatch / 453.650 (KEB891) Dispatch -repeater
453.750 -F1- Fireground / 453.900 -F2- Fireground

Also: 45.680 (KED404) Poughkeepsie Town Police -This is Lieutenant Callo's private radio channel. Poughkeepsie Town Police will soon be going to VHF-hi.

158.730 (KNGG522/KEA703) Kingston City Police -F2-
154.830 Kingston City Police -mobile-

Dutchess County Sheriff (KEA368):
39.220 Sheriff and Under-Sheriff
159.210 Repeater output (use unknown)
154.710 Repeater input
460.0375 Court Department -simplex

From Steve Lowenthal:

New York City Fire Department Radio Codes:

10-01 Call your quarters (or other unit if so instructed)
10-02 Return to your quarters
10-03 Call dispatcher by phone
10-04 Acknowledgement
10-05 Repeat message
10-06 Stand-by
10-07 Verify address
10-08 In service by radio
-without code-
Code 1 / Code 2
10-09 Off the air
10-10 What is you location?
10-11 Request for radio test
10-12 First arriving unit give preliminary
10-14 Breakdown of apparatus
10-18 Return all units except engine, (squad) and ladder company required at scene
10-19 Return all units except company required at scene
10-20 Proceed to box location at reduced speed. No warning devices are to be used all all traffic regs are to be observed
10-21 Brush fire
10-22 Outside rubbish fire
10-23 Abandoned/derelict vehicle fire
10-24 Auto fire
10-25 Manhole or transformer vault fire
-without code-
Situation other than as described in Codes 1,2 or 3
CODE 1 -Manhole fire extended to building
CODE 2 -Blown manhole cover(s) or smoke issuing under pressure/stand by
CODE 3 -Smoke seeping from manhole/less severe
10-26 Food on stove
10-27 Compactor firee
10-28 Fire in subway or railroad system
CODE 1 -Fire in tunnel or other underground area
CODE 2 -Fire in above ground or open cut
10-31 Clogged incinerator
10-32 Defective oil burner
10-33 Odor of smoke
10-34 Sprinkler system emergency
-without code- Frozen, damaged pipe; or not covered by below:
CODE 1 -Sprinkler malfunction
CODE 2 -working on system
CODE 3 -System activated by friendly fire or other heat source
10-35 Automatic alarm system emergency
-without code-
CODE 1 -Defective alarm system
CODE 2 -Unwarranted alarm -no defect
CODE 3 -"Recorded" alarm -no cause for alarm
10-36 Auto emergency
CODE 1 -Accident and/or washdown gasoline spillage
CODE 2 -Accident/ no gas spillage
10-37 Assist civilian (applies whether or not NYFD related)
10-38 Steam leak
10-39 Water condition
CODE 1 -Water leak in structure
CODE 2 -Broken water main in st.
10-40 Utility emergency
-without code- other than below
CODE 1 -Gas emergency
CODE 2 -Electrical emergency

Public Safety - North East continued

10-41 Incendiary or suspicious fire - notify fire marshal
CODE 1 -Occupied structure. Definite indications of arson. Fire Marshal to respond
CODE 2 -Occupied structure. No definite indications of arson Fire Marshal to respond to interview witnesses
CODE 3 -Vacant building. Heavy fire volume indicates arson. Fire Marshal to respond if free
CODE 4 -Vacant building. Obvious arson but appears little chance of apprehension or information leading to same. Notify Fire Marshal
10-44 Request for public ambulance
10-45 D.O.A. or possible D.O.A.
10-47 Request for police assistance
10-48 Request for police assistance - harassment
10-51 Cancellation of all outside activities for this period
10-59 Water pressure alert -phase 1
10-60 Water pressure emergency -phase 2
10-68 Restruct use of telephone/ voice alarm and radio to minimum
10-70 In-line pumping
10-75 Request for 3 engines (2 engines and 1 squad) 2 ladders and a battalion chief response
10-76 Request for response of 4 engines,4 ladders, 1 rescue company, 2 battalion chiefs, 1 deputy chief and the field communications unit for a high rise building fire
10-77 Request for response of one additional deputy chief, two additional battalion chiefs, one additional rescue company, the high rise unit, a command post company and the mask service unit for a high rise building fire
10-80 Hazardous materials incident
CODE 1 -A hazardous material indident which involves a severe hazard and which will require expert help. An incident where there may be a prolonged evacuation. An incident where many civilians are effected.
CODE 2 -A hazardous material incident involving a lesser hazard or smaller area
CODE 3 -A hazardous material incident which can be handled by responding units and does not require evacuation of other than the involved structure or the immediate area if outdoors
10-84 Announce arrival at box
10-92 Malicious false alarm
10-99 Units for operating for at least thirty minutes
10-100 Restricted use of city wide radio frequency due to high rise fire

Maryland-D.C.

Rick Schneider who had been writing a sub-column for this area a number of months ago is starting up again. Rick urges anyone in the area or with knowledge of it to write in with some information he can use in a column. These sub-editorships are extremely important to the vitality of this northeast article as each regional metropolis should have one editor who has a good feel for his own area and for the communications within it. Please do help Rick out! You can write Rick Schneider at 234 North Washington, Rockville, MD 20850.

The Scanner Master Metro D.C./Baltimore Guide which I publish should absolutely be available by December 1st (as of this writing on Oct. 8 the book is only one week away from the printer's!) I do want to apologize to all the members who ordered this book and whose checks we had to hold until this time. Below is the Wicomico County Maryland page which was corrected by a communications and public safety official from Wicomico County.

MARYLAND: WICOMICO COUNTY (County Seat: Salisbury)

County Sheriff (KIT655)

39.640 Dispatch

Fire Department (KFB943-9)

33.980 F1: Dispatch
33.800 F2: Fireground
33.480 F3: Fireground
154.325 Signaling, Set off Sirens, Verify, etc
MED Channel 2 (Alt-1/6/8) (KBP582/WYH543)

County Government

151.040R Highway Department (KJS952) (Input on 156.060)
155.040P County Pager

Public Safety - North East continued

155.805	County Youth & Civic Centers
461.775	County Humane Society
464.975	County Board of Education

Municipalities

Delmar

39.400	Police Department (KKL986)
39.640	Police Department (new allocation-use unknown)
158.820	City Government (KIU550)

Fruitland

155.925	City Government (KNBV363)
155.940	City Government (KNBV363)

Salisbury

460.075R	Police Department (KGA935)
39.820	Police Department (may no longer be in use)
155.925B	City Government (KNCU532) (Mobils on 158.865)
48.300	Delmarva Power and Light (also 48.240)

State and Federal Governments

39.060	MSP-F11:Barrack E (Salisbury-KGA913)
44.740	MSP-Interstate with Delaware & Virginia State Police
47.400	SHA-F3: District 1
151.460	DNR-F1: Forestry (Eastern Division)
151.325	DNR-F2: Parks (Eastern Division)
37.260	State Government - may no longer be in use (KTA967)
154.515	Salisbury State College - Security
155.025	Salisbury State College - Maintenance
155.775	Salisbury State College - Security
155.265	Deers Head Center / Holly Center (KYO531)
162.475	NOAA Weather Service Broadcasts (Salisbury)
163.440	U.S. Army (Salisbury)

PUBLIC SAFETY WEST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming to:

George N. Hoggatt, 17473 E. 16th Dr., Aurora, CO 80011

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Well, there is a lot of input this month, but only from three people. Don't think that what you have is of no importance. It doesn't have to be a multipage detailed list. If your city or county or fire department or whatever uses a frequency, let us all know about it. It doesn't have to be typed either. I retype most of what is sent so it all looks the same after it comes out of the word processor. So just jot it down and send it in. The only thing I ask is that you put your name and membership number on each page in case I get clumsy and mix things up.

NEW BOOK DEPARTMENT

Fox Scanner Listings has a new book out for Alaska. As with the Hawaii edition this is very complete and contains a lot of information. It is the only Alaska book available. Contact them at 1-800-543-7892. In Ohio 1-800-621-2513. In Alaska 1-513-236-3591.

HELP NEEDED DEPARTMENT

Carl Gerosa NY-117 needs help in identifying some skip received. If you can identify these, send the information to me or directly to Carl via the club.

39.180 - KGR322 KQH614 KED944 KEG562 KEF954 KTO503 all in Arizona?

39.820 - Montana area - KRT293 KYN474 KDY474 KLB347 KDE450 KDB284 WPD345 KOA726 KOA622 KOA510 KVA904 KBT292 KOA904 KOH307 KON704 KLK643 KTA829 KEG/KOG92 KOS47 KSC45 KOS39 KRG62

39.86 - WBC610? near Glacier, Montana

OREGON

BEVERTON Steven Stalte-Brown OR-041

F-1 155.010 simplex Common Law
F-2 154.650 simplex Dispatch KOB306
F-3 155.565 simplex Car to Car

CODES

10-1 through 1-22 are standard
10-35 Confidential information
10-35F Felony Warrant
10-35M Misdemeanor Warrant
10-35S Suspended
10-35V Stolen Vehicle
10-200 Out at the pumps
11-96 Traffic Stop
12-1 Non Injury Accident
12-2 Injury Accident
12-5 Public Assist
12-6 Tow Needed
12-8 Meet At _____
12-17 No Wants or Warrants
12-21 Burglary
12-22 Theft
12-23 Rape
12-24 Vandalism
12-25 Fight
12-26 Drunk
12-28 Suspicious
12-34 Mental
12-43 Relieved
12-55 Alarm
12-90 Weapons
12-91 Narcotics
12-92 Assault
12-93 Assault Against an Officer
12-94 Sex Offender
12-95 Burglary, minor 12-95 Theft
12-90 through 12-95 are used in connection with C.C.H. only

TERMS AND ABBREVIATIONS

CCH	Certified Criminal History
CID	Criminal I.D. Report
ER	Emergency Responder
OD	Off Duty
RP	Responding party or reporting party
DWS	Driving While Suspended
SO	Sheriff's Office
SIX	Station Six (Beaverton)
VBR	Violation of Basic Rules
OCI	Oregon Correctional Institute
OSP	Oregon State Penitentiary
40	Coffee Break
SIG.1	Cancels Signal Two
SIG.2	Emergency Transmissions Only

UNITS

Adam	Administration
David	K-9
King	Detectives
Tom	Motorcycles
Tom-5	Parking Enforcement
X-ray	Sergeant
Willy	Reserve

First Digit = Station Number (6)
Second Digit = Unit Number
Third Digit = Shift: 1=day, 2=swing, 3=graveyard

LOCAL GOVERNMENT City Works - 155.925, 155.085
FIRE F-1=154.400, F-2=154.205

WASHINGTON

MISC William Martin WA-056

Adams	(LERN)	155.370
	(SEC)	154.950
Asotin	(SEC)	155.190
	(PRI)	155.415
Benton	(LERN)	155.370
	(AUX)	155.910
Chelan	(LERN)	155.370
	(NET)	460.500
Clark	(COMMON)	155.310
	(AUX)	155.070
Columbia	(PRI)	156.150
COSLITZ	(COMMON)	154.815
	(LERN)	155.370
Douglas	(PRI)	155.415
	(SEC)	156.150
	(NET)	452.050
Ferry	(PRI)	155.310
	(LERN)	155.370
Franklin	(PRI)	155.910
Garfield	(AUX)	39.820
	(SEC)	156.150
Grant	(AUX)	154.830
	(PRI)	155.700
	(NET)	460.500

Public Safety - West continued

Grays Hbr	(PRI)	155.910
	(LERN)	155.370
Island	(VICTOR)	453.400
Jefferson	(SEC)	453.275
	(AUX)	460.225
King	(NORTH)	460.325
	(SOUTH-EAST)	460.450
	(TAC-ONE)	460.500
	(DATA)	460.275
	(MARINE PATROL)	154.965
Kitsap	(PRI)	158.880
Kittitas	(SEC)	154.650
	(AUX)	155.790
Klickitat	(SEC)	154.950
Lewis	(PRI)	155.625
	(TAC)	155.715
Lincoln	(PRI)	156.030
Mason	(PRI)	460.225
Okanogan	(PRI)	155.640
	(LERN)	155.370
Pacific	(PRI)	460.075
	(NET)	39.820
Pend Oreille	(NET)	39.820
	(LERN)	155.370
Pierce	(METRO)	155.640
	(ADMIN)	154.950
San Juan	(SAN)	453.075
Skagit	(UNION)	453.400
	(SEC)	155.310
Skamania	(PRI)	453.250
	(LERN)	155.370
Snohomish	(PRI)	159.210
	(LERN)	155.370
Spokane	(COMMON)	39.820
	(ADMIN)	39.940
	(AUX)	154.875
	(LERN)	155.370
	(AUX)	155.655
	(AUX)	159.210
	(AUX)	39.920
	(DET)	39.960
	(PRI)	155.310
	(SEC)	155.625
	(AUX)	155.085
Stevens	(PRI)	155.310
	(LERN)	155.370
Thurston	(PRI)	155.550
	(AUX)	155.010
Wahkiakum	(PRI)	460.075
Walla Walla	(SEC)	154.875
	(PRI)	155.250
Whatcom	(ADAM)	453.675
Whitman	(AUX)	39.820
	(PRI)	155.730
Yakima	(COMMON)	155.010
	(SEC)	156.150
	(LERN)	155.370
Ritzville	(PRI)	156.030
Asotin	(LERN)	155.370
	(AUX)	156.210
Prosser	(PRI)155.670	
	(SEC)	156.150
Wenatchee	(PRI)	155.625
	(AUX)	452.500
	(SEC)	453.575
Vancouver	(PRI)	155.655
Dayton	(LERN)	155.370
Kelso	(AUX)	154.950
E.Wenatchee	(NET)	155.475
	(NET)	460.500
Republic	(AUX)	39.920

Public Safety - West continued

Pasco	(SEC)	156.150
Pomeroy	(PRI)	155.190
Ephrata	(LERN)	155.370
	(SEC)	156.150
Montesano	(AUX)	159.150
Coupeville	(AUX)	453.075
Pt. Townsend	(PRI)	453.575
Seattle	(EAST)	460.225
	(SOUTH-WEST)	460.400
	(COMMON)	460.200
	(DES)	153.755
	(LERN)	155.370
Pt. Orchard	(LERN)	155.370
Ellensburg	(PRI)	155.655
	(NET)	460.500
Goldendale	(PRI)	156.090
Chehalis	(SEC)	155.010
	(LERN)	155.370
Davenport	(LERN)	155.370
Shelton	(LERN)	155.370
Okanogan	(COMMON)	155.010
	(NET)	460.500
So. Bend	(AUS)	460.225
	(AUX)	158.850
Newport	(PRI)	155.310
Tacoma	(COMMON)	156.090
	(LERN)	155.370
Friday Hbr	(AUX)	453.400
Mt. Vernon	(AUX)	453.075
	(AUX)	155.730
Stevenson	(SEC)	453.075
Everett	(SEC)	453.075
Colville	(SEC)	
Olympia	(COMMON)	155.150
	(LERN)	155.370
Cathlamet	(AUX)	460.475
WALLA WALLA	(AUX)	156.150
	(LERN)	155.370
Bellingham	(SEC)	155.610
Colfax	(SEC)	155.190
Yakima	(PRI)	155.730
	(NET)	460.500

KING COUNTY Ron Murray CA-VE-012

KING COUNTY DEPARTMENT OF PUBLIC SAFETY
UNIT NUMBERING

1 SHERIFF-DIRECTOR
2 COMMANDER-FIELD OPERATIONS DIVISION
3 COMMANDER-TECHNICAL SERVICES DIVISION
4 COMMANDER-CRIMINAL INVESTIGATIONS DIVISION
9 ADMINISTRATIVE AID TO SHERIFF-DIRECTOR
10 PUBLIC INFORMATION OFFICER
11 LABOR RELATIONS OFFICER
12 LEGAL ADVISOR
13 ADMINISTRATIVE ASSISTANT TO SHERIFF-DIRECTOR
15 COMMANDER-COMMUNICATIONS SECTION
16 LIEUTENANT-COMMUNICATIONS SECTION
20 COMMANDER-PRECINCT 2
21-24 LIEUTENANTS-PRECINCT 2
25-26 COMMUNITY CRIME PREVENTION OFFICERS
27-28 CRIME ANALYSIS OFFICERS
29 EVIDENCE AND SUPPLY CLERK
30 COMMANDER-PRECINCT 3

Public Safety - West continued

31-34 LIEUTENANTS-PRECINCT 3
25-26 COMMUNITY CRIME PREVENTION OFFICERS
27-28 CRIME ANALYSIS OFFICERS
29 EVIDENCE AND SUPPLY CLERK
40 COMMANDER-PRECINCT 4
41-44 LIEUTENANTS-PRECINCT 4
45-46 COMMUNITY CRIME PREVENTION OFFICERS
47-48 CRIME ANALYSIS OFFICERS
49 EVIDENCE AND SUPPLY CLERK
50 COMMANDER-SPECIAL OPERATIONS SECTION
51 COMMANDER-EMERGENCY SERVICES SECTION
52 COMMANDER-TACTICAL OPERATIONS SECTION
53-59 EMERGENCY SERVICES SECTION
60 COMMANDER-INSPECTIONS AND PLANNING SECTION
61-65 INTERNAL INVESTIGATIONS UNIT
80 SERGEANT-RESEARCH AND PLANNING UNIT
81-85 RESEARCH AND PLANNING UNIT
102 SERGEANT-BURGLARY/LARCENY UNIT <PRECINCT 2>
103 SERGEANT-BURGLARY/LARCENY UNIT <PRECINCT 3>
104 SERGEANT-BURGLARY/LARCENY UNIT <PRECINCT 4>
105 SERGEANT-BURGLARY/LARCENY UNIT <FEDERAL WAY SUBSTATION>
120-129 BURGLARY/LARCENY DETECTIVES <PRECINCT 2>
130-134 BURGLARY/LARCENY DETECTIVES <PRECICNT 3>
135-139 BURGLARY/LARCENY DETECTIVES <FEDERAL WAY SUBSTATION>
140-149 BURGLARY/LARCENY DETECTIVES <PRECINCT 4>
200 COMMANDER-MAJOR INVESTIGATIONS SECTION
201 COMMANDER-SPECIAL INVESTIGATIONS SECTION
202 SERGEANT-ROBBERY UNIT
203 SERGEANT-HOMICIDE UNIT
204 SERGEANT-CRIMINAL WARRANTS UNIT
205 SERGEANT-VICE CONTROL UNIT
206 SERGEANT-DRUG ENFORCEMENT UNIT
207 SERGEANT-SEX CRIMES UNIT
208 SERGEANT-AUTO THEFT/CHECK FRAUD UNIT
209 SERGEANT-CRIMINAL INFORMATION SECTION
210-219 CRIMINAL INFORMATION SECTION
220-229 HOMICIDE/ROBBERY
230-249 CRIMINAL WARRANTS
250-259 VICE CONTROL
260-269 DRUG ENFORCEMENT
270-279 SEX CRIMES
280-289 AUTO THEFT/PAWNSHOP
290-298 CHECK FRAUD
299 POLYGRAPH UNIT
300 COMMANDER-AUXILIARY SERVICES SECTION
310-316 CIVIL UNIT
317 SUPERVISOR-PROPERTY MANAGEMENT UNIT
318 SUPERVISOR-RECORDS UNIT
319 SUPERVISOR-IDENTIFICATION UNIT
320-324 IDENTIFICATION UNIT
325-329 PHOTO LAB UNIT
330-332 PROPERTY MANAGMENT UNIT
350-359 SUPERVISORS-COMMUNICATIONS SECTION

Public Safety - West continued

370 SERGEANT-TRAINING UNIT
371-375 TRAINING UNIT
390-394 RESERVES/TRAINING EXERCISES
395-399 SEQUESTERED JURY SECURITY
400 CENTRAL DISPATCH-DIVISION OF CORRECTIONS
401 DIRECTOR-DEPARTMENT OF ADULT DETENTION
402 DEPUTY DIRECTOR-DEPARTMENT OF ADULT DETENTION
403 LIEUTENAT/JAIL OPERATIONS 1st WATCH
404 LIEUTENANT/JAIL OPERATIONS 2nd WATCH
405 LIEUTENANT/JAIL OPERATIONS 3rd WATCH
410 SERGEANT-COURT DETAIL
411-449 COURT DETAIL/JAIL OPERATIONS
500-509 KING COUNTY FIRE MARSHALL-ARSON UNIT
542-544 LAKE FOREST PARK POLICE DEPARTMENT
551 SKYKOMISH MARSHALL
560-564 KING COUNTY RESERVES-SKYKOMISH AREA
590 BLACK DIAMOND POLICE DEPARTMENT-CHIEF
591 BLACK DIAMOND POLICE DEPARTMENT-SERGEANT
592-595 BLACK DIAMOND POLICE DEPARTMENT-OFFICERS
600 HOSTAGE NEGOTIATIONS TEAM LEADER
601 ASSISTANT TEAM LEADER-1
602 ASSISTANT TEAM LEADER-2
603-620 HOSTAGE NEGOTIATION TEAM
675 COMMANDER-TAC 30 UNIT <SWAT>
676 TAC 30 ALPHA TEAM LEADER
677-685 TAC 30 ALPHA TEAM
686 TAC 30 BRAVO TEAM LEADER
687-695 TAC 30 BRAVO TEAM
696 TAC 30 CHARLIE TEAM LEADER <RELIEF>
697-699 RESERVED FOR TAC 30 UNIT
700 KING COUNTY EXECUTIVE
701-702 KING COUNTY EXECUTIVE-SECURITY
703-705 KING COUNTY EXECUTIVE STAFF
706-713 KING COUNTY COUNCIL
720 KING COUNTY PROSECUTING ATTORNEY
721-725 KING COUNTY PROSECUTING ATTORNEY STAFF
730 DIRECTOR-PUBLIC WORKS
731-739 PUBLIC WORKS STAFF
790 RADIO SHOP SUPERVISOR
791-799 RADIO SHOP STAFF
800 RADIO SHOP TESTING-DO NOT REPLY
820-899 KING COUNTY POLICE EMERGENCY SERVICES FOR SEARCH AND RESUE ASSOCIATION
900 RADIO SHOP TESTING-REQUESTING A REPLY
901-909 RADIO SHOP FIELD TECHNICIANS
R20-25 PRECINCT 2 RESERVES
R26-27 SNOQUALMIE PASS RESERVES
R28-29 PRECINCT 2 RESERVES
R30-39 PRECINCT 3 RESERVES
R40-49 PRECINCT 4 RESERVES
R50-59 EMERGENCY SERVICES
K9-1 SERGEANT-CANINE UNIT
K9/2-7 CANINE UNIT OFFICERS

MARINE 1 SERGEANT-MARINE PATROL UNIT
MARINE 2-10 MARINE OFFICERS <MARINE 3=ACTING SUPERVISOR>
MARINE 11 LAKE WASHINGTON-1st WATCH
MARINE 12 LAKE WASHINGTON-2nd WATCH
MARINE 13 LAKE WASHINGTON-3rd WATCH
MARINE 21 LAKE SAMMAMISH-1st WATCH
MARINE 22 LAKE SAMMAMISH-2nd WATCH
MARINE 23 LAKE SAMMAMISH-3rd WATCH
MARINE 31 LAKE MERIDIAN
MARINE 32 LAKE SAWYER
MARINE 33-39 ALL OTHER FRESH WATER BOATS
MARINE 41-49 ALL SALT WATER BOATS
MARINE 50-59 RESERVE DIVERS
SAM 2 TRAFFIC SERGEANT-NORTH <PRECINT 2>
SAM 3 TRAFFIC SERGEANT-SOUTHEAST <PRECINCT 3>
SAM 4 TRAFFIC SERGEANT-SOUTHWEST <PRECINCT 4>
SAM 10-29 TRAFFIC-SOUTHWEST
SAM 30-49 TRAFFIC-NORTH
SAM 60-79 TRAFFIC-SOUTHEAST
SAM 80-89 TRAFFIC-MOTORCYCLE
SAM 90-95 TRAFFIC-HIT & RUN FOLLOWUP INVESTIGATORS
SAM 99 FORESTRY PATROL OFFICER
ZEBRA 1-14 COURT SECURITY
ZEBRA 15 KING COUNTY PARKS SECURITY COORDINATOR
ZEBRA 20-29 PRECINCT 2-PARKS SECURITY
ZEBRA 30-39 PRECINCT 3-PARKS SECURITY
ZEBRA 40-49 PRECINCT 4-PARKS SECURITY

KING COUNTY MUTUAL AID RADIO SYSTEM-M.A.R.S.

154.650T 155.190R
TRANSMITTER:SQUAK MOUNTAIN
RECIEVERS:GOLD MTN.GRASS MTN.HARBORVIEW.RATTLESNAKE.SQUAK MTN.
ACCESS TONE:123.0 Hz. EXCEPT HARBORVIEW WHICH IS CARRIER SQUELCH

458.350T 453.350R
TRANSMITTER:SIMULCAST FROM SQUAK MTN. AND HARBORVIEW
RECIEVERS:HARBORVIEW-HORIZON VIEW.NORWAY.SQUAK.TOP HAT.
ACCESS TONE:CARRIER SQUELCH

465.550T 460.550R
TRANSMITTER:SQUAK MOUNTAIN
RECIEVERS:HARBORVIEW.HORIZON VIEW.NORWAY.SQUAK.TOP HAT.
ACCESS TONE:103.5 Hz.

ALL OF THE ABOVE RECIEVE FREQUENCIES ARE CROSS BAND SIMULCAST.

155.190	F-1 <R>	WLG-68	M.A.R.S. VHF COMPONENT <154.650 INPUT>
154.965	F-2 <R>	WLG-68	MARINE UNIT/MOUNTAIN PASSES <153.995 IN>
153.755	F-3 <S>	KBL-995	O.E.S./S.A.R./TRAFFIC C-C/RADIO PAGING
155.160	F-4 <S>	KP-5775	SEARCH AND RESCUE COORDINATION
453.350	TAC-3	WLG-68	M.A.R.S. 453 MHz. COMPONENET

Public Safety - West continued

460.200	COUNTY	WLG-68	COUNTYWIDE CAR TO CAR/AUXILIARY DISPATCH
460.225	EAST	WAS-612	NOT IN USE/REPLACED BY 154.965 <F-2>
460.275	DATA	WLG-68	DATA BASE INQUIRIES
460.325	NORTH	WLG-68	DISPATCH/PRECINCT 2
460.400	SOUTHWEST	WLG-68	DISPATCH/PRECINCT 4
460.450	SOUTHEAST	WLG-68	DISPATCH/PRECINCT 3
460.500	TAC-1	WLG-68	TACTICAL OPERATIONS CHANNEL/CAR TO CAR
460.525	FederalWay	WLG-68	DISPATCH/FRI.-SAT.NITES/OTHERWISE ON S.E.
460.550	TAC-2	WLG-68	M.A.R.S. 460 MHz. COMPONENT

RATTLESNAKE RIDGE TRANSMITTER <WAS-612> CAPABLE OF F2,F3,COUNTY,NORTH.
ALL M.A.R.S. CHANNELS ARE CROSS BAND SIMULCAST.
ALL TRANSMITTER SITES FOR COUNTY AND TAC-1 ARE SIMULCAST.
155.370 <L.E.R.N.> CURRENTLY USED BY COMM CENTER AND SELECT CARS ONLY.
460.525 WILL SIMULCAST 460.450 WHEN NO OPERATOR ON FEDERAL WAY CHANNEL.

PATROL UNIT NUMBERING

ADAM	PRECINCT 2 - NORTH PATROL
BOY	PRECINCT 2 - NORTHEAST PATROL
CHARLIE	PRECINCT 2 - NORTH BEND PATROL
DAVID	PRECINCT 2 - PROACTIVE PATROL
EDWARD	KING COUNTY FAIR DETAIL<ENUMCLAW>
FRANK	PRECINCT 3 - SOUTHEAST PATROL
GEORGE	PRECINCT 3 - FEDERAL WAY PATROL
HENRY	PRECINCT 3 - PROACTIVE PATROL
IDA	SEATLLE INT'L.RACEWAY DETAIL
KING	PRECINCT 4 - WHITE CENTER PATROL
NORA	PRECINCT 4 - BURIEN/SKYWAY/SOUTH PARK PATROL
OCEAN	GREEN RIVER TASK FORCE <SERIAL HOMICIDES>
PAUL	PRECINCT 4 - PROACTIVE PATROL
ROBERT	RESERVE OFFICERS
SAM	EMERGENCY SERVICES-TRAFFIC SECTION
VICTOR	PRECINCT 4 - VASHON ISLAND PATROL
ZEBRA	COURT SECURITY/PARKS PATROL

1=0700-1500 2=1500-2300 3=2300-0700 <VARIATIONS EXIST>
MASTER POLICE OFFICERS="0" <ASSIGNED BEAT "3G20" OR UNASSIGNED BEAT "3G0">
UPDATED 10/02/84

WELCOME TO DECEMBER 1984 ISSUE OF RCMA PUBLIC SAFETY - CALIFORNIA

Happy Thanksgiving & an early Merry Christmas & Happy New Year from the Public Safety - California Staff Office. (Hope your "Fright Night" on October 30 was happy, too!!)

Can you believe, Christmas already?! It's still October as I write this! Oh

well, that's magazine editor jobs for you! Look forward to a BIG write up about the 1985 News Years Tournament of Roses Parade. Both P.S. California editors will be on duty for the Tournament Association again this year. It's Mike's 2nd year and Eric's 3rd. FUN!! There's a few more RCMA members out there that night, too.

Mike and I are putting together 2 big articles, one is a final "blow out" on the Olympics and the other will be about the Rose Parade. Look forward to these 2 "AWESOME" articles to attack your Newsletter soon, citywide.

In this issue, I will be presenting some useful info, plus printing some mail which has been "laying around" for a while. Sorry we've been slow in getting things out, it's just that the Olympics were so awesome, they "burned us out" for a while. There is an unreal amount of work that goes into every issue of this Newsletter. Ask any editor. ERIC (CA-LA-045)

From LYBRAND (CA-LA-157):

The latest line up of South Bay frequencies:

Torrance Police

155.70 R MHz.	"Green"	Dispatch
154.86	"Brown"	Tac
155.10	"Blue"	Tac with Fire input to "Green"
154.71 M		
853.5125 R	"Yellow"	808.5125m

Redondo Beach Police

460.075 R	Police/Dispatch
154.935	CLEMARS - tactical

Note: Torrance PD tested "Yellow" frequency some time ago, but most broadcasts are on "Green", "Brown", and "Blue". It is currently unknown how much "Yellow" is used. (Bearcat, Regency, Radio Shack - are you listening, here's another 800 MHz channel!!)

South Bay Communications

Dispatch 1:	470.6375 R	Hermosa Beach PD - Station 1 Manhattan Bch PD - Station 2
Dispatch 2:	470.3875 R	El Segundo PD - Station 3

Note: Manhattan Beach PD now seems to be using "Dispatch 1" rather than "Dispatch 2" as in the past. El Segundo PD has been heard on both 1 and 2, but seems to favor 2. Torrance PD is not a partner in the South Bay system. Redondo Beach PD used to be, but pulled out. Ironically, South Bay Comm is located at their PD station. Local RCMA members had the opportunity to tour South Bay Comm earlier this year - it's a nice set up.

-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-

From our "Inland Empire Bureau":

1. San Bernardino County Sheriff. "Brown Frequency" 155.475 MHz. (NLEMARS) (Confirmed) Surveillance heard (!)
2. San Bernardino County Sheriff. Now has a dog unit available to West End and Ranch Cucamonga areas. Radio ID is 2-K-9-1.
3. Chino PD recently added a dog unit also. Unknown ID. (Listen for the bark!)

From ERIC (CA-LA-045):

POLICE DEPARTMENT-City of Sacramento
Radio Frequencies

Ch. 1	460.050	R	Central (West side)
2	460.200	R	South
3	460.325	R	East
4	460.475	R	North
5	460.425	R	Info, Tactical
6	460.075	R	Detectives
7	460.500	M	Tactical
8	460.275	R	Emergency

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From RUSS (CA-LA-146):

Russ sent us an interesting article off of the UPI Metrowire which tells about a "million dollar gift" given to the Los Angeles Police Department by the Los Angeles Olympic Organizing Committee (LAOOC). The LAOOC reportedly donated to the LAPD $1 million worth of radio equipment and 162 motorcycles. The equipment was

used by the LAOOC and LAPD during the Olympics in LA. The motorcycles will be used for "crime repression" rather than traffic enforcemnt. The radios are Motorola MX-350 digital synthesized and digital scrambled voice security radios. (175 hand held radios, with 40 ConvertaCom, 10 car radios, and several receivers, repeaters, consoles, etc. It should be interesting to see how these DVP radios get used by the LAPD.

From WAYNE (CA-LA-119):

Wayne sent in an interesting article from the Los Angeles Times about the Los Angeles County Sheriff Dept's. (LASO) recent request of the FCC to relinquish UHF TV channel 19 (500-506 MHz) to the Los Angeles area for Public Safety use. The U.S. Govt. GAO (Govt Accounting Office) released a study showing a definite need for more frequencies to be authorized to the Los Angeles County Sheriff Department.
Another bit of information Wayne sends in shows that the Southern California Rapid Transit District has 2 frequencies in the 160 MHz railroad spectrum for their new subway. Does any one out there in radio land know these freqs?

From HUGH (CA-LA-472): (Our Photo Editor)

You guys REALLY wanna hear more about the Olympics? (Masochists...)

Received the Oct issue... you used ALL of it... WOW. Some mistakes did creep in, as is inevitable in the heat of battle.

All those 482 - 503 MHz "simulcasts" were images. This is despite checking it out on a Radio Shack scanner (different IF from Bearcat). Ha, ha, silly me. Not really. It was still great to only search one band and still hear everything.

Sanyo made the TV's and VTR's used at the venues. Timers were Swiss, and result boards were Mitsubishi.

Civilian guards were paid ($5.75 / hr). A lot had late checks, though, so maybe my "unpaid" goof was really E.S.P.

Were you the ones at the last RCMA meeting who told me that the FCC monitors were adding 300 MHz to all frequencies said over the air? Anyway, this is true. Couldn't figure out why they kept talking about the 440 band, since my ham radio was quiet. They were really doing 2 meters! (Good! Throw'em all in jail!).

Found a sheet with more good air ID's heard on 122.75 MHz: Gunfighter 1, Network 1, Transit 1, Guard 087, Army 626, Idaho 23, Air Force 17. (Those two last ones sound like a football game score).

A couple of times I watched the choppers shine a very dim light on our building. Found out later that this was low light surveillance. On the ground you'd never know you were being lit up. Course you'd look up upon hearing the chopper (Hueys do make noise). Can't have everything.

Torch... oh, yeah. That description in your column was good writing. That's just the way it felt - kinda crazy. "Follow the torch: was all the sport around here. NG840 was giving out the latest 2 meter freqs to monitor (the UHF freq was left secret, although I talked to them on it once from home). There were a lot of backup freqs in case of jamming, and at on point Santiago Mtn. (145.22 MHz) crapped out, on them and they switched. I drove behind the torch for several miles through Beverly Hills on Wednesday, top down and HT on. (Sounds like something I did, ed)

The torch went within 2 blocks of our house twice, once on Friday and once on Wednesday (I think) - up Pico and Olympic respectively. MOB City. I've got photos of a guy in a Bronco who decided to make a left off Exposition - yes, over the railroad tracks. He didn't make it.

I saw the torch 3 or 4 times. We'd just drive out and stop (2 meters was helpful in planning). The same crazy scene each time. Big party. Everybody selling stuff. I had an "official" UCLA-welcomes-the-torch shirt and guys offering $20 for it. (Not for sale).

LAPD motors had an effective method of keeping the crowd back. They would drive along the line they wanted clear. They would not stop. The crowd would dodge them - instant police line. Code 3, natch, but too slow to hurt anyone.

Westlink said some guys tried to jam the torch (radio communications), but I didn't hear this.

To be continued....

From ERIC (CA-LA-045) and BRYAN (CA-OR-097)

Caltrans Statewide Radio System Network-From ERIC (CA-LA-045)

Channel	Frequency	District	Channel	Frequency	District
A "WHITE"	47.02	04, 07	F "BLUE"	47.12	07
B	47.04	09, HQ	G	47.16	03, 08
C	47.06	04	H	47.18	05
D "ORANGE"	47.08	Local	I	47.20	01, 05
E	47.10	02, 10, 11	J "GREEN"	47.24	Freeways, 07

From Bay Area Scanner Club (via BRYAN (CA-OR-097))

Caltrans Statewide Districts

District	Frequency	Area of Service
01	47.02	Greater Eureka area
02	47.10	Greater Redding area
03	47.16	Greater Marysville area
04	47.02, 47.04	Greater San Francisco area
04	458.60	" " " " mobile only
05	47.16	Greater San Louis Obispo area
06	47.20	Greater Fresno area
07	47.02	Greater Los Angeles area
08	47.16	Greater San Bernardino area
09	47.04	Greater Bishop area
10	47.10	Greater Stockton area
11	47.10	Greater San Diego area

Additional frequencies-unconfirmed use. From ERIC (CA-LA-045)

Channel X	45.68	District 07 Freeways (also called "Special Channel"
Channel Y	151.04	District 04 Bridge
Channel Z	458.60	District 04
	47.04	Auburn to Donner (I-80 FWY); Summit

County Flood Control & Road Channels-From BRYAN (CA-OR-097)

FC	151.16	R	Orange Co. Station 6-Flood Control
HWY	151.085		" " Station 8-Road Dept.
FC	151.145	R	San Bernardino Co. Flood Control
HWY	159.12	R	" " " Road Dept.
FC	159.27		Los Angeles Co. Flood Control
FC	44.84		" " " L.A. District & weather
FC	44.96		" " " L.A. District Flood Control

District 7 utilizes four radio frequencies:

47.02	"WHITE"	Southern & northern areas
47.12	"BLUE"	Lancaster & Parker
47.08	"ORANGE"	Car to Car
47.24	"GREEN"	Freeway operations & local

CALTRANS District 7 Mobile Unit Numbering System-Southern California

Orange Co. Maintenance	7-1-0	through	7-1-90 *
Eastern Maintenance	7-4-0	"	7-4-90 *
Westwood	7-5-0	"	7-5-50 *
Metropolitan L.A.	7-7-0	"	7-7-89 *
Long Beach	7-9-0	"	7-9-60 *
West Valley	7-13-0	"	7-13-80 *
Executive branch	7-X-0	"	7-X-9
Maintenance	7-1	"	7-19
"	7-Y-1	"	7-Y-13
Bridge & pavement rehabilitation	7-Zero-0, 7-Zero-1		
Day pavement rehabilitation	7-Zero-30, 7-Zero-31		
Night pavement rehabilitation	7-Zero-40, 7-Zero-41		
Bridge crew-south	7-Zero-60, 7-Zero-61		
Bridge crew-north	7-Zero-70, 7-Zero-71		
Traffic Operations-East (response)	7-W-3	through	7-W-23
" " " (planned closer)	7-W-30	"	7-W-34
Traffic Operations West (response)	7-J-0	"	7-J-45
" " " (planned closer)	7-J-22	"	7-J-24, 7-J-30
Shop	7-R-0	"	7-R-92 *

* Indicates some unit numbers are omitted by Caltrans.

Caltrans District 7 Remote Base Sites (Info submitted by BRYAN (CA-OR-097) obtained from "Communications Center Bulletin")

KPV 908	Mt. Lukens	KME 251	Cuyamaca
KMJ 305	Santiago	KZE 689	Los Pinetos
KLV 840	Rolling Hills	KUZ ---	Johnstone Peak
KMV 480	Mt. Lee	KRO 296	Hauser Peak
KZQ 532	Oat Mt.	KMD 446	South Mountain
KMA 303	Heaps Peak	KRM 654	Baldwin Mills

From ERIC (CA-LA-045):

CALIFORNIA HIGHWAY PATROL Unit Numbering System [San Berdo. Disp. area's]

Riverside	74-	GREEN	42.540B/42.240 M	KCX980, KMD453
SR60 (W. Riv. area)			74-10	
Rubidoux, Sunnyslope			74-11	
Mission Blvd., Glen Avon			74-12	
Glen Avon			74-13	

Public Safety - California continued

Mira Loma	74-14
Pedley, Rubidoux	74-15
SR91 bt. Adams & Buchanan	74-20
Highgrove	74-21
SR91 bt. Adams & SR60	74-22
SR91 bt. SR60 & Riv/SB Co. line	74-23
I15E fr. SB Co. line to Univ. City	74-24
March AFB area	74-25
SR60 bt. Box Sprgs. & Gilman Springs, Reche Cyn., Pigeon Pass Rd.	74-26
Sunnymead, Edgemont, Moreno	74-27
Mockingbird Cyn. Rd., Arnold Hgts.	74-28
SR91 bt. Org. Co. line & Buchanan	74-30
Corona Expwy. (SR71)	74-31
Tem. Cyn. Rd., fr. Corona to Glen Ivy, Cajalco Rd. fr. El Cerrito to El Sob.	74-32
Markham St., Mead Valley(east), March AFB(south)	74-41
Romoland	74-42
Glen Valley, Mead Valley	74-43
Lk. Perris, Lakeview, Nuevo, Jun.Flats	4-44
Good Hope	74-45
Homeland, Sun City	74-46
Quail Valley, Sun City	74-47
Tem. Cyn. Rd. fr. Glen Ivy south, Els.	74-51
Lakeland Village	74-52
Canyon Lake	74-53
Ortega Hwy.	74-54
Sedco Hills, Wildomar(north)	74-55
Rancho Cal.(west), Wildomar(south), Temecula	74-61
Murrieta	74-62
Winchester Rd., Skinner Res. area	74-63
Rancho Cal.(east)	74-64

SAN BERNARDINO COUNTY From the files of ERIC (CA-LA-045)
Victorville Sheriff's Office

7 Paul 1	Victorville	
7 Paul 2	Victorville	
7 Paul 3	Victorville (8PM to 4AM)	155.565 MHz
7 Paul 4	Apple Valley	
7 Paul 5	Apple Valley	
7 Paul 6	Hesperia	
7 Paul 7	Hesperia	
7 Paul 8	Oro Grande, El Mirage	
7 Paul 11	Wrightwood (Resident Deputy)	
7 Paul 12	Lucerne Valley (Resident Deputy)	

7 Charlie	Pat. Bureau Capt.
7 Lincoln #	Pat. Bureau Lts.
7 Sam #	Pat. Bureau Sgts.
7 David #	Station Detectives

SAN BERNARDINO COUNTY SHERIFF'S OFFICE **Unit Numbering System**
Needles Office
155.91 MHz.

10 Charlie	Captain	10 Paul 6	Needles
10 David	Station Detective	10 Paul 7	Needles
10 Sam	Sergeant	10 Paul 8	Needles
10 Paul 1	Parker Dam	10 Paul 9	Needles
10 Paul 2	Parker Dam	10 Paul 10	Needles
10 Paul 3	Parker Dam	10 Paul 11	
10 Paul 4	Havasu Landing	10 Paul 12	
10 Paul 5	Needles (City back-up)	10 Paul 13	
		10 Paul 14	
		10 Paul 15	Parker Dam

From ERIC (CA-LA-045):

UNITED STATES FOREST SERVICE

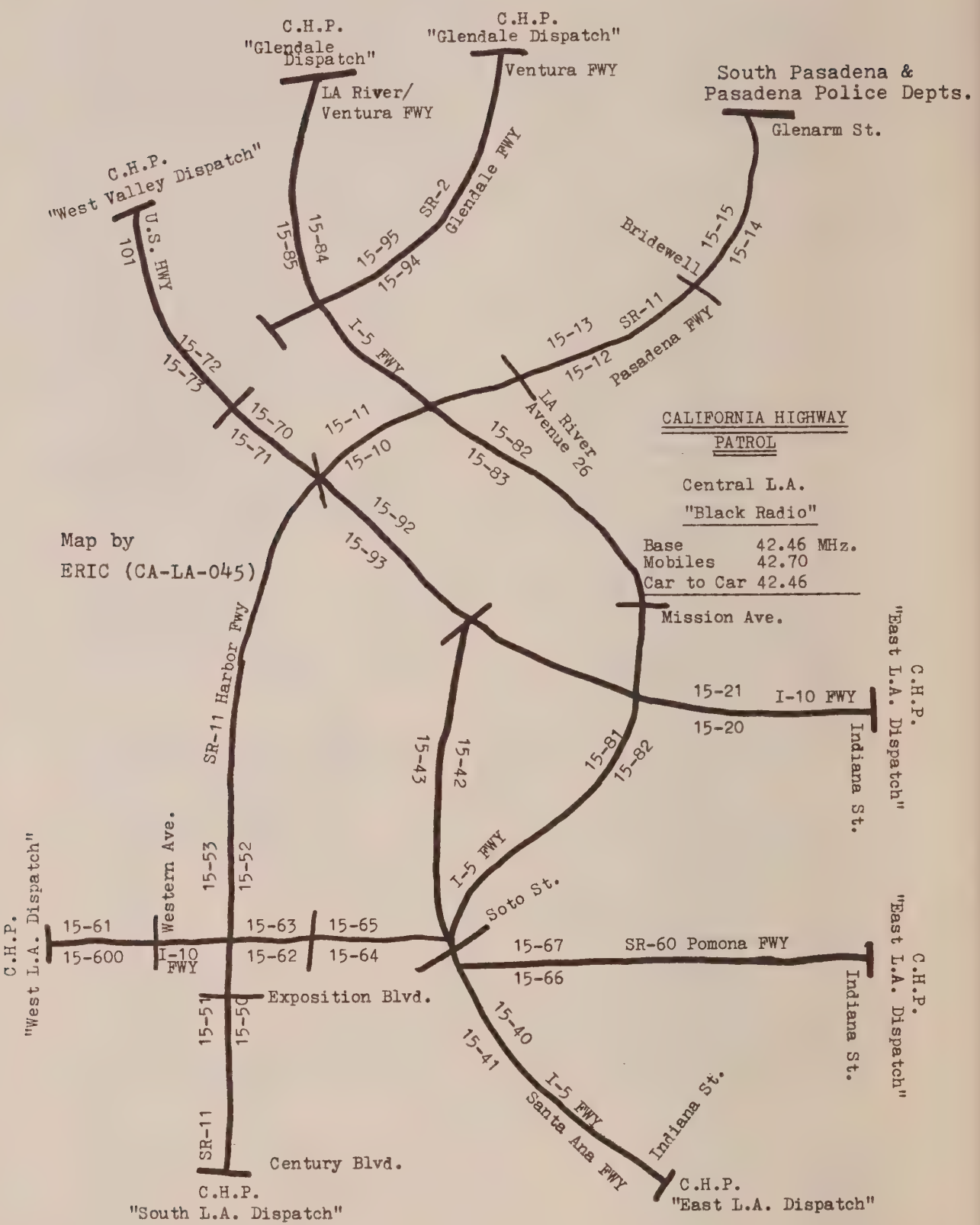
San Bernardino National Forest

RADIO SYSTEM

PRIMARY	171.475 MHz.	KME 20	(Repeat/Simplex)
Input	172.225		(Mobile to repeater)
Service Net	164.125		(Service Net repeater)
Links	415.475 MHz.	Air Dispatch Channel "A2"	
	415.575	169.150 MHz.	
	415.35		

UNIT #	ARROWHEAD DISTRICT	UNIT #	BIG BEAR DISTRICT
101	District Ranger	201	District Ranger
102	District FMO	202	District FMO
104	Asst. Dist. FMO	205	Recreation Officer
105	Recreation Officer	215	Recreation Crew # 1
106	Resource Officer	225	Recreation Crew # 2
115	Resource Crew # 1	235	Recreation Crew # 3
125	Resource Crew # 2	206	Resource Officer
135	Resource Crew # 3	216	Resource Crew # 1
113	Skyforest Tanker	226	Resource Crew # 2
123	Deerlick Tanker	213	Fawnskin Tanker
129	Heaps Peak Helitack	223	Big Pines Tanker
143	Miller Canyon Tanker	2391	Big Pines Nurse Tanker
133	Rock Camp Tanker	214	Bear Valley FPT
H-34	Heaps Peak Helicopter	224	Big Pines Flats FPT
153	Crab Flats Tanker	234	Holcomb FPT
114	Crestline FPT	244	Onyx FPT
124	Running Springs FPT	254	Alternate FPT
134	North Shore FPT	289	Hot Shot Supervisor
184	Miller Canyon FPT	2891	Hot Shot Crew # 1
154	Green Valley FPT	2892	Hot Shot Crew # 2
164	Alternate FPT		
149	Deerlick Tractor		
1491	Miller Canyon Nurse Tanker		

UNIT #	ADMINISTRATIVE OFFICE	UNIT SERIES	DISTRICT AREA
1	Forest Supervisor	100	Arrowhead
1-1	Deputy Forest Supervisor	200	Big Bear
2	Forest Fire Management Officer	300	Cajon
2-1	Forest Asst. FMO	400	San Gorgonio
2-2	Forest Fire Prevention Officer	500	San Jacinto
2-3	Forest Air Officer		
2-5	Forest Dispatcher		
7-2	C & M Superintendent		
7-2-1	Zone 1, C & M		
7-2-2	Zone 2, C & M		
7-2-3	Zone 3, C & M		
78	Communications Officer		
781	Asst. Communications Officer		
RECON 1	Forest Recon Aircraft		
999	Bonanza Fixed Fire		


C.H.P.
"Glendale Dispatch"
C.H.P.
"Glendale Dispatch"
Ventura FWY
LA River/
Ventura FWY
South Pasadena &
Pasadena Police Depts.
Glenarm St.
C.H.P.
"West Valley Dispatch"
U.S. HWY 101
15-85
15-84
15-95
15-94
SR-2
Glendale FWY
Bridewell
15-15
15-14
I-5 FWY
15-13
SR-11
15-12
Pasadena FWY
15-72
15-73
15-70
15-71
15-11
15-10
LA River
Avenue 26
15-82
15-83
CALIFORNIA HIGHWAY
PATROL
Central L.A.
"Black Radio"
Base 42.46 MHz.
Mobiles 42.70
Car to Car 42.46
Map by
ERIC (CA-LA-045)
15-92
15-93
Mission Ave.
15-21
I-10 FWY
15-20
C.H.P.
"East L.A. Dispatch"
Indiana St.
SR-11 Harbor Fwy
15-43
15-42
15-81
15-82
I-5 FWY
Soto St.
C.H.P.
"West L.A. Dispatch"
15-61
15-600
Western Ave.
I-10
FWY
15-53
15-52
15-63
15-65
15-62
15-64
15-67
SR-60 Pomona FWY
15-66
Indiana St.
C.H.P.
"East L.A. Dispatch"
Exposition Blvd.
15-51
15-50
15-40
15-41
I-5 FWY
Santa Ana FWY
Indiana St.
SR-11
Century Blvd.
C.H.P.
"South L.A. Dispatch"
C.H.P.
"East L.A. Dispatch"

County of Los Angeles-SHERIFF DEPARTMENT
Call Disposition Codes

Original source lost, sorry.

NUMERICAL

101	MURDER
102	ASSAULT-217/245 PC
103	RAPE
104	ROBBERY-ARMED
105	ROBBERY-STRONG ARM
106	ASSAULT ON POLICE
107	ASSAULT OTHER(F)
108	KIDNAPPING
109	ARSON
120	BURGLARY-RESIDENCE
121	BURGLARY-BUSINESS
122	BURGLARY-SCHOOL
123	BURGLARY-VEHICLE
124	BURGLARY-BOAT
125	BURGLARY-OTHER
130	GRAND THEFT-PERSON
131	GRAND THEFT-GUN
132	GRAND THEFT-VEHICLE
133	GRAND THEFT-OTHER
135	RECEIVING STOLEN PROPERTY
136	EMBEZZLEMENT
137	FORGERY/CHECKS/CR. CARD
138	MAL MISC/VANDL-SCHOOL(F)
139	MAL MISC/VANDL-OTHER(F)
140	SEX OFFENSE-OTHER(F)
151	NARCOTICS(F)
165	WEAPON LAWS(F)
171	R/C ARREST-HOMICIDE
172	R/C ARREST-ASSAULT
173	R/C ARREST-RAPE
174	R/C ARREST-ROBBERY
175	R/C ARREST-BURGLARY
176	R/C ARREST-GRAND THEFT
177	R/C ARREST-GTA
178	R/C ARREST-OTHER
180	FEDERAL OFFENSES
182	VEHICLE LAWS-FELONY
185	FELONY (OTHER)
186	WARRANT(F)
202	ASSAULT/BATTERY
206	RESIST/INTERFERING POLICE
207	DISTURBANCE/DISTURBING THE PEACE
210	FALSE BOMB RPT-SCHOOL
211	FALSE BOMB RPT-OTHER
229	DRUNK DRIVING
230	DRUNK
231	THEFT-BICYCLE(M)
232	THEFT-PETTY(M)
238	MAL MISC/VANDL-SCHOOL(M)
239	MAL/MISC/VANDL-OTHER(M)
240	SEX OFFENSE(M)
251	NARCOTICS(M)
261	PROWLER
262	TRESPASSING-OTHER
263	TRESPASSING-MTRCYCLE
264	LOITERING
265	WEAPON LAWS(M)
270	ILLEGAL DUMPING
271	LIQUOR LAWS
282	VEHICLE LAWS-MISDEMEANOR
285	MISDEMEANORS (OTHER)
286	WARRANT(M)
287	WARRANT(T)
301	ADMINISTRATIVE
302	APPEAR-COURT
303	APPEAR-OTHER
304	BRIEFING
305	COMMUNITY RELATIONS
306	EQUIP. TROUBLE (VEH./RADIO)
307	MESSENGER
308	STATION SERVICE
309	SUBPOENA SERVICE
310	TRAVEL TIME
311	TRAINING
312	TRANSPORTATION-PRISONER
313	TRANSPORTATION-OTHER
314	WARRANT SERVICE (NO ARREST)
315	ALARM-BURGLARY
316	ALARM-ROBBERY
317	ANIMALS
318	ASSIST CITIZEN
319	ASSIST CHP
320	ASSIST GOVERNMENT
321	ASSIST PUBLIC UTILITY
322	ASSIST POLICE (NOT LASD)
323	ASSIST SHERIFF (OTHER STN)
324	EXPLOSIVE-LOST/FOUND
325	FIRE/FIRE ALARM
326	FOLLOW-UP
327	INCORRIGIBLE
328	PROTECTIVE CUSTODY (JUVE.)
329	RUNAWAY
330	TRUANCY
331	LABOR DISPUTE/STRIKE
332	MISCELLANEOUS-OTHER
333	MISSING &/OR FOUND-ADULT
334	MISSING &/OR FOUND-JUVE.
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336	PERSON DEAD
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423	VEHICLE RED TAGGED
424	VEHICLE STORED/IMPOUNDED

From RANDY (CA-OR-230):

PLUMAS COUNTY SHERIFF'S DEPT.--- Unit Numbering System

1A1	Sheriff	100's	Quincy Deputies
1A2	Under-sheriff	200's	Portola Deputies
1D1--3	Detectives	300's	Greenville Deputies
1J1--3	Jailers	400's	Chester Deputies
1L1	Lieutenant	500's	Reserve Deputies
1W1	Welfare Investigator	600's	Boat Patrol
		700's	Search & Rescue

F1	156.090R	Dispatch
F2	155.595R	Secondary
F3	154.920	CLEMARS

Sgts. ID w/ Station prefix #.
EX= 1S1, 4S2, etc.

MONO COUNTY SHERIFF'S DEPT.--- Unit Numbering System

8A1	Sheriff
8A2	Under-sheriff
8A3	Lieutenant
8A4	Lieutenant
8D1--3	Detectives
8R1--7	Reserve Deputies
8S1--4	Sergeants
801--822	Deputies

All unit identifiers are individual ID's.

S01	154.800R	Dispatch
S02	154.800R	Dispatch
S04	154.920	CLEMARS

"Mono 1" Bridgeport Dispatch
"Mono 2" Mammoth Dispatch

(S01 & 2 are for different repeater access. I didn't ask which is which)

MONO COUNTY EMERGENCY MEDICAL SERVICES--- Ambulance Locations

Medic 1	Walker
Medic 2	June Lake
Medic 3	Mammoth
Medic 4	Benton
Rescue 70	Bridgeport FD

All 'Medic' units are dispatched by "Mono 1" on Sheriff's primary

See Ya next month - ERIC (CALSO45)

Railroads

Gary L. Sturm and
Bill Farmer, Editors

Send information about railroad frequencies and their uses, railroad radio system details, and related questions to:

Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91360

The Railroads Column first appeared in the RCMA Newsletter in September 1979. The first editor was Marvin Suggs, Jr. Ken Fitzgerald took over in January 1980 and the duty passed to the present co-editors in May 1982. In all of that time, quite a bit of information has been published, and since it has never been indexed we decided to compile an all-time index to the Railroads Column. It is divided into two parts; the first part lists the names of specific railroads covered, and the second part lists general articles which do not relate to any specific railroad.

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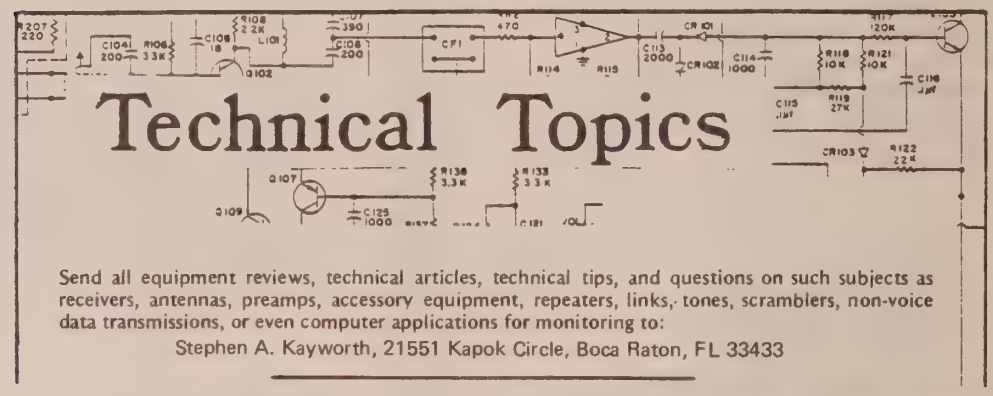
Coming next month—contributions from Joe (MD-015), Carl (WI-54), Warren (NY-214), and YOU. Happy Holidays...

—Gary & Bill

This column is for the exchange of space communications systems (manned or unmanned), frequency information, orbital data, hobby receiving equipment and antennas. Questions and column input pertaining to Space Communications Monitoring should be sent to:

Larry Van Horn (TN-014), 1111 N. Carrier Pkwy., B-107, Grand Prairie, Texas 75050.

This column will appear as information is received by the editor from the membership. Your observational information and intercepts of satellite signals are also welcomed. Any and all satellite transmissions will be accepted. Send your questions, queries, and comments to the address listed above.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Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions, or even computer applications for monitoring to:
Stephen A. Kayworth, 21551 Kapok Circle, Boca Raton, FL 33433

ACSB: THE END OF THE STORY

For the past two months I have been leading up to a discussion of Amplitude Compandored Single Sideband. I have already talked about SSB transmission and reception as a basis for discussing ACSB, so let's move on. I would like to first thank James Cavanagh (IL-060) for the information he sent me covering this subject. Most of the following material comes from a paper published by Stephens Engineering Associates, Inc. of Mountainlake Terrace, WA.

The main force that originally motivated this new technology was a need to reduce the congestion on the two-way radio bands. The radio spectrum is a finite resource, and there just aren't enough frequencies to go around. Although the move to 800 MHz has helped this problem, these frequencies are fast becoming used up in many areas of the country. Another solution is to make better use of the frequencies we already have, and this is what ASCB accomplishes.

How does ASCB make better use of the frequencies we already have? By taking up less space for each channel. Generally, a conventional FM channel takes up about 30 KHz of the spectrum. ACSB has a much narrower bandwidth. It only takes up about 5 KHz. Quick division shows the advantages to be 6 to 1 in favor of ACSB for conserving the spectrum. Figure 1A shows what a single 5 Khz ACSB channel looks like. This figure shows the upper sideband signal which contains the voice band and the 3.1 KHz pilot tone. For now, don't worry about the function of the pilot tone. Just know that it is always present during each transmission.

One of the things that makes ACSB so appealing is that it can coexist with FM signals. The way this can be done is to place ACSB channels between existing FM channels. Normally, FM channels are spaced 30 KHz apart. It is possible to place two ACSB channels between two FM channels as shown in figure 1B part A. In some areas, though, FM channels are spaced only 15 KHz apart. In this case, it is still possible to place one ACSB channel between the FM channels. Figure 1B part B shows this. Under ideal circumstances it might be possible to fit a total of four ACSB channels in between three conventional channels - quite an improvement in spectrum efficiency.

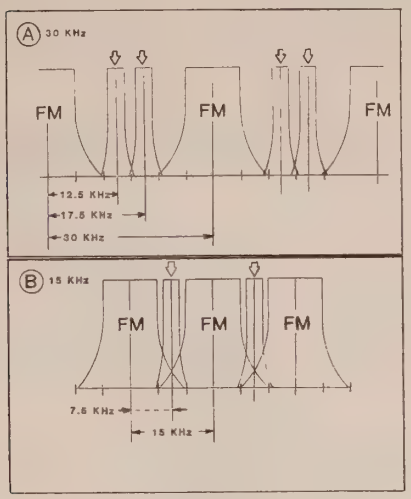
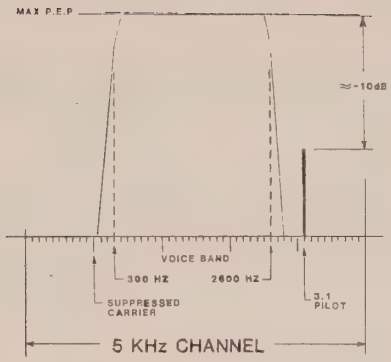


FIGURE 1B

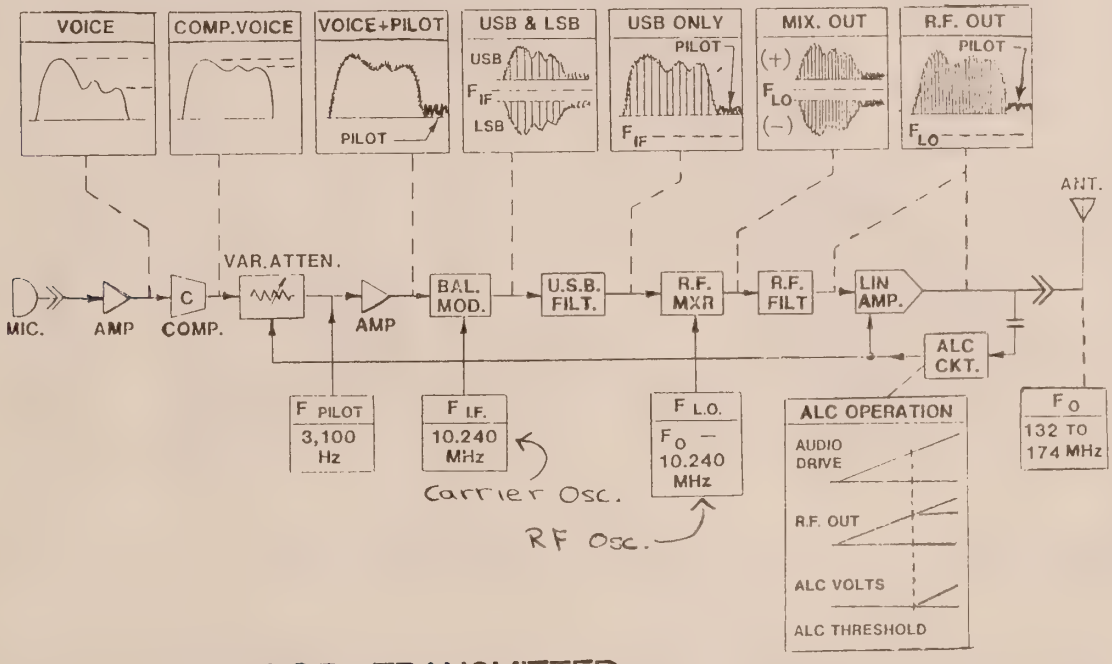


A.C.S.B. SPECTRUM
FIGURE 1A

Before going on, I need to correct an error I made in the October column. Figure 4 on page 82 shows the output of the Speech Amp being fed into the Carrier Oscillator. This is incorrect. It should be fed to the Balanced Modulator. I plead temporary insanity on that one.

With that correction fresh in your mind, look at figure 2. It is a block diagram of an ACSB transmitter. In its major points it is identical to the SSB transmitter I described in the October column. The main differences are found in the Compressor, Variable Attenuator, Pilot Tone and ALC (Automatic Limiter Control) circuit. Let's "walk thru" the diagram and I'll explain the sights as we go.

The audio signal from the microphone is amplified by the Speech Amp and fed to the Compressor. The job of the Compressor is to compensate for widely varying audio signal levels. The Compressor reduces the input signal by a specific ratio. A common ratio is 4:1, meaning that a change of 40 decibels (dB) at the input of the Compressor would only change its output by 10 dB. The output of the Compressor tends to be of a constant level. The word "Compandored" is derived, in part, from the function of the Compressor. The audio is compressed in the transmission process and expanded in the receive process. More on that later. For now, I'll skip the Variable Attenuator.



A.C.S.B. TRANSMITTER
FIGURE 2

Before the compressed microphone audio is passed to the Balanced Modulator the Pilot Tone is added to it. The Pilot Tone is used by the receiving station as a reference signal. This tone is a precise frequency (in this case 3.1 KHz but it can be different) and is highly stable in both amplitude and frequency. The Pilot Tone is always present when transmitting.

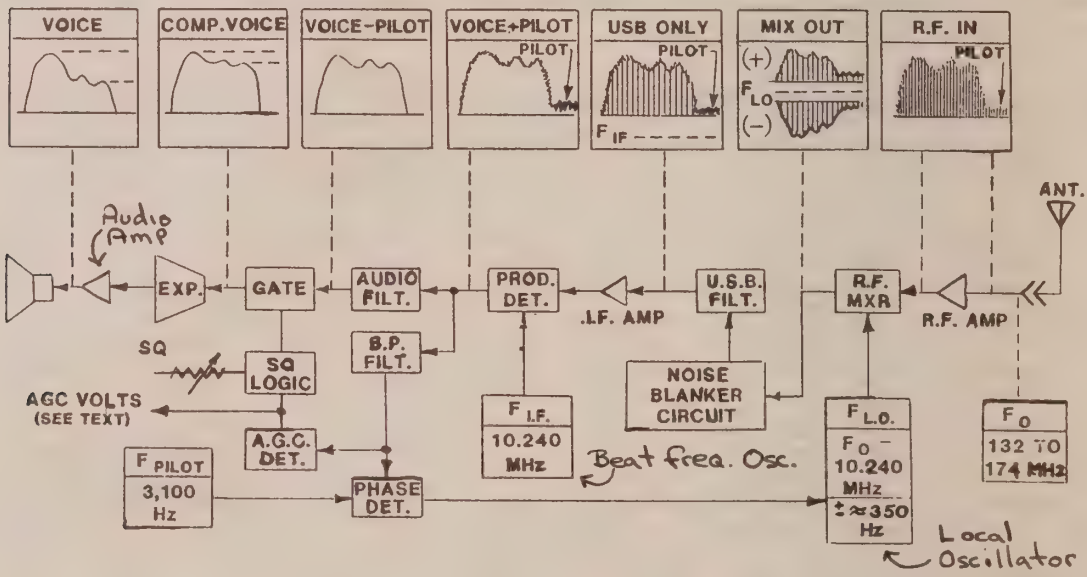
The Balanced Modulator, USB Filter, Mixer, RF Oscillator and Linear Amp all operate as described in the October column. The RF Filter shown in Figure 2 is used to filter out the unwanted mixer ouput, leaving only the desired frequency to be amplified by the Linear Amp.

One of the key considerations in the transmitter is that of linearity. If the Linear Amp is over-driven by preceeding stages, it can begin to operate in a non-linear fashion. When this happens, the signal can distort, and the distortion can cause the bandwidth of the signal to increase, defeating the entire point of ACSB - narrow bandwidth. Although the Compressor is designed to reduce high audio peaks, it doesn't operate instantaneously; therefore, it is possible for the Linear Amp to be over-driven momentarily until the Compressor can react and bring the audio back to the proper level. This is where the ALC circuit and the Variable Attenuator become important.

Unlike the the Compressor circuit, which requires a certain amount of time to start working, the ALC circuit is consider to act instantaneously. The ALC monitors the RF output of the Linear Amp. Whenever the RF output goes beyond a preset level, the ALC starts to generate a DC control voltage. As the RF output increases beyond the preset level, the DC control voltage also increases. This voltage is fed back to the Variable Attenuator. The Variable Attenuator reduces the level of the audio signal in an amount that is proportional to the DC control voltage. The higher the control voltage the more the audio signal is reduced. The purpose of this arrangement is to prevent any momentary voice peaks from causing the Linear Amp to be over-driven, resulting in wider bandwidth and generally poor radio operation. The result of an over-driven Linear Amp is commonly called "sideband splatter" and usually ends up on an adjacent channel, making some other user very unhappy.

Once the signal leaves the transmitter, it travels to the distant receiver where it is turned back in to an audio signal. The receiving proccess for ACSB is very similar to that of normal SSB but with a few notable differences.

Figure 3 shows the block diagram of an ACSB receiver. Except for the Noise Blanker, The ACSB receiver, from Antenna to Product Detector, is much the same as the SSB receiver I described in the November column. Once you get passed the Product Detector, however, things begin to look different. Instead of there being just an Audio Amp after the Product Detector, there's a lot of other "stuff." What's it all for? Read on.



A.C.S.B. RECEIVER

FIGURE 3

The Audio Filter and Bandpass Filter perform the function of separating the voice audio and Pilot Tone and routing them in different directions. Remember I said that the Pilot Tone is always present in the transmitted signal? The output of the Product Detector contains both the voice audio and the Pilot Tone. The receiver needs the Pilot Tone, as we will see, but it has to be removed from the voice audio. The Audio Filter performs this function. The voice audio passes through the Audio Filter which also filters out the continuous Pilot Tone. After

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the Audio Filter, the voice audio passes through the Gate. The gate is part of the squelch circuit. It only allows audio to pass when a signal is present.

After the Squelch Gate, the audio reaches the Expander. The Expander performs the opposite function of the compressor in the transmitter - it expands the audio. The voice audio is expanded by the same ratio that it was compressed in the transmitter. In other words, a 10 dB change at the input of the expander would result in a 40 dB change at its output.

The compressing/expanding, or "companding" process is what makes ACSB's narrow bandwidth possible. Normally, the narrower the bandwidth the less the amount of information that can be contained in a signal, but because the voice audio frequencies are limited to about 2600 Hz and are then compressed in the transmission process, the bandwidth can be kept to a minimum.

There is one problem that is common with SSB. Anyone who has ever used a SSB radio, whether it be a CB, Amateur, or military radio, knows that if you don't have the signal tuned in just right the voice will sound either too high or too low in pitch, depending on whether you have tuned above or below the center frequency. This is often described as sounding like Donald Duck. The purpose of the "clarifier" control on a CB radio is to give the user some control over the receiver tuning. With the clarifier, you can fine tune the receiver frequency so that the voice you are listening to sounds natural. If you have never been exposed to SSB, this is a hard thing to understand. Once you've heard it, though, you would know what I'm trying to describe. One place you may have heard a SSB signal is in the original Star Wars movie. At the end of the film when the "Rebel Alliance" was attacking the "Death Star," the radio communication that was going on between the rebel fighters was SSB You might ask, "How do you know that?" Well, I just know what SSB sounds like, and I'm sure that the director of the film was trying imitate it. OK! Why is this a problem? It's a problem because, if the signal is not tuned in properly, the voice may not be understandable. In commercial two-way radio circles, it was not felt that a clarifier, as found on a CB radio for example, was an acceptable solution to the problem. ACSB users would not want to have to "fiddle" with controls on the radio to be able to recieve properly. This is where the Pilot Tone becomes important.

Where the Audio Filter removed the Pilot Tone from the voice audio, the Bandpass Filter remove the voice audio from the Pilot Tone, allowing only the Pilot Tone to pass to its output. The pilot tone is then fed to the Phase Detector.

Also fed into the Phase Detector is the output of a highly stable 3.1 KHz reference oscillator contained in the receiver. The Phase Detector compares the transmitted 3.1 KHz tone (from the output of the Bandpass Filter) to the internal 3.1 KHz reference tone. The output of the Phase Detector is a DC voltage which varies in both amplitude and polarity depending on the differnce in the frequency between the the transmitted pilot tone and the reference pilot tone. This DC control voltage is fed to the receiver's Local Oscillator where it is used to shift the Local Oscillator frequency up or down until there is no difference in the two pilot tone frequencies. When the transmitted pilot tone frequency equals that of the reference pilot tone, the DC output of the Phase Detector will be zero volts, causing the frequency of the Local Oscillator to remain where it is. At this point the receiver is said to be locked to the transmitter frequency.

The Squelch Logic circuitry will not allow the Squelch Gate to open until the receiver is in lock, so the ACSB radio user never hears an off-frequency signal. The action of the squelch circuitry is very fast and is not noticed in normal operation.

The last topic I would like to discuss is the possibility of monitoring ACSB with a standard FM/AM scanner. There are some problems and some possibilities too. The first problem is that the bandwidth of the scanner might be too great. The consequence of this is that you might not only hear one ACSB channel but two or three adjacent ones too. Another problem is that the scanner might not be capable of being programmed to the frequencies that fall between the normal FM channels. A third problem is that the scanner would have to be able to operate in the AM mode to receive an ACSB signal. On top of that, a beat frequncy oscillator (BFO) of some sort would have to be used to reinsert the carrier that was suppressed in the transmission process.

With all these stumbling blocks, it would seem impractical to have one unit that would be able to monitor FM, AM and ACSB, but if ACSB ever becomes widely used it wouldn't be too hard to design a scanner to monitor all three modes.

Many scanners now have the ability to switch to AM when scanning the aircraft band. This feature could be made switch selectable on the scanner's keyboard. It would also be possible to add a BFO that could also be switch selectable from the keyboard. The only other thing that would need to be added is a sideband filter in the AM IF section to narrow down the bandwidth of the receiver in the ACSB mode.

I don't expect to see such a unit on the market in the near future. In fact, we may never see such a unit. It really depends on the success of Amplitude Compandored Single Sideband in the marketplace. If ACSB is successful then we may just see a scanner capable of receiving all three modes - FM, AM and ACSB.

I have learned a lot studying this mode of communication; I hope you have too. It will be interesting to see how this new technology develops. ACSB could be the wave of the future or it could just become a memory. Only time will tell.

Final Notes

According to an article in Communication magazine (ACSB: The Users View, Jan. 1984, p. 44) ACSB is in use in the following cities: Seattle, Washington; Traverse City, Michigan; Santa Maria, California; Norfork, Virginia; Fresno, California; Los Angeles, California; Opp, Alabama; San Francisco, California and Buffalo, New York. I'm sure this list in not conclusive, but it's all the info I have at this time. Also, I have no info on what frequencies these systems are using. If any of you who live in the above listed areas have any success monitoring ACSB, please let me know how you did it.

References

As I mentioned earlier, most of this information was taken from a report published by:

Stephens Engineering Associates, Inc.
7030 220th SW
Mountainlake Terrace, WA 98043

Amplitude Compandored Single Sideband

INFORMATION

(Date and Author unknown)

VHF Marine

Send information, articles, frequencies and their use, and questions that relate to private, commercial, and Coast Guard VHF maritime and inland waterways radio communications to:

Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504

Hello and welcome to your DECEMBER VHF MARINE COLUMN,and a happy holiday season to you all.

Our first report comes from Paul (Ma.-047) concerning stations that he has received over a period of time from his home around New Bedford & Cape Cod,Ma..

Beverly Yacht Club - Marion,Ma. - KYQ-817 - 156.425
Boston Marine Operator - Boston,Ma. - KCD-817 - 161.900,161.950
Burr Brothers Boats - Marion,Ma. - KUF-658 - 156.425
Concordia Company - Dartmouth,Ma. - 156.800,156.425
Chester Crosby & Sons - Barnstable,Ma. - KSK-307 - 156.975
Cuttyhunk Harbor Master - Cuttyhunk Harbor Island,Ma. - 156.425
Edgartown Yacht Club - Edgartown,Ma. - KYH-576 - 156.800,156.425
Edgartown Marine - Edgartown,Ma. - WXY-942 - 156.800,156.425
New Bedford-Fairhaven Bridge - New Bedford,Ma. - 156.800,156.650
Falmouth Harbor Master - Falmouth,Ma. - 156.800,156.450
Falmouth Marine - Falmouth,Ma. - WHU-443 - 156.425,156.800
Highline Base - Falmouth,Ma. - KDF-841 - 156.800
Hyannis Marine Operator - Hyannis,Ma. - 162.000
Island Queen (Ferry) - 156.800,156.650
Kingman Marine - Barnstable,Ma. - WHF-883 - 156.800,156.450
Larry's Island Electronics - Oak Bluffs,Ma.- KUZ-435-156.800,156.500, 156.450,156.650

Marshfield Radio(N.E.Surf Patrol)-Marshfield,Ma. - 156.800,156.600
Mattapoisett Boat Yard - Mattapoisett,Ma. - 156.800,156.600
Mattapoisett Cruiser (P.D.)- Mattapoisett,Ma.-156.425
Mattapoisett Police Boat - Mattapoisett,Ma. - 156.425
Mattapoisett Police Department - Mattapoisett,Ma. - 156.425
M/V Arega (Boat)WH,MVY,NKT.SS.AUTHORITY - 156.350
M/V Islander (Ferry)WH,MVY,NKT.SS.AUTHORITY - 156.350
M/V Nantucket (Ferry)WH,MVY,NKT.SS.AUTHORITY - 156.350
M/V Naushon (Ferry)WH,MVY,NKT.SS.AUTHORITY - 156.350
M/V Uneatina (Ferry)WH,MVY,NKT.SS.SUTHORITY - 156.800,156.350
Nantucket Boat Basin - Nantucket,Ma. - 156.800,156.425
Nantucket Marine Operator - Nantucket,Ma. - 156.800,161.875,161.925,
161.950
New Bedford Marine Operator-New Bedford,Ma.-KJC-737 - 156.800,161.800,
161.900,161.975
New Bedford Yacht Club - Dartmouth,Ma. - 156.425
New York Marine Operator - New York,N.Y. - 156.800,161.825,161.850
Oak Bluffs Station(WH,MVY,NKT.SS.AUTHORITY)-Oak Bluffs,Ma. 156.350
Onset Bay Marina - Onset,Ma. - 156.800
Onset Harbor Master - Onset,Ma. - 156.800,156.450
Portland Marine Operator - Portland,Me. - 162.000
Provincetown Harbor Master,Ma. - 156.600,156.800
Sandwich/CapeCod Harbor Master - Sandwich,Ma. - 156.800
Vineyard Haven Station(WH,MVY,NKT.SS.AUTHORITY)-Vineyard Haven,Ma.
- 156.800,156.350
Vineyard Haven Yacht Club - Vineyard Haven,Ma. - 156.800
Wareham Harbor Master - Wareham,Ma. - 156.800
Wareham Harbor Patrol - Wareham,Ma. - 156.450,156.800
Warrs Marine - Wareham,Ma. - KXE-241 - 156.800
Woods Hole Marine - Woods Hole,Ma. - KYL-924 - 156.350
Woods Hole Operations(WH,MVY,NKT,SS.AUTHORITY)-Woods Hole,Ma.-156.350
WUA-21 - Army Engineers - Cape Cod Canal,Ma. - 156.650,156.700

Coast Guard Stations:
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Atlantic City,N.J. - 156.800
Block Island,R.I. - 156.800,157.100
Boothbay Harbor,Me. - 156.800
Group Boston,Ma. - 156.800,157.100
Brant Point - Nantucket,Ma. - 156.800,157.100
Cape Cod - Sandwich,Ma. - 157.100
Castle Hill - Newport,R.I. - 156.800
Fire Island - Babylon,N.Y. - 156.800,157.100
Gloucester,Ma. - 157.175,156.800
Group Long Island Sound - New Haven,Ct. - 157.100
Island Queen Base - Falmouth,Ma. - 156.800
Manasquan Inlet - Point Pleasant Beach,N.J. - 157.175
Menemsha - Menemsha(Martha's Vineyard),Ma. - 156.800,157.100
Montauk,N.Y. - 156.800,157.100
New London,Ct. - 156.800,157.100
Osterville,Ma. - 156.800
Point Allerton - Hull,Ma. - 156.800,157.075,157.100,157.175
Point Judith - Narragansett,R.I. - 157.050
Group Portland,Me. - 157.100
Provincetown Harbor Master,Ma. - 156.600,156.800
Provincetown,Ma. - 156.600
Group Rockaway - Fort Tilden,N.Y. - 156.800
Sandy Hook - Highlands,N.J. - 156.800,157.100,157.175
Group Woods Hole,Ma. - 156.800,157.050,157.100,156.600

ADDITIONAL LISTINGS:

Schooner "Bill of Rights" (Tall Ship) - 156.800
M/V "viking Queen" (Ferry) - 156.800
C.G.Cutter Bibb - 156.800
C.G.Cutter Point Bonita - 157.100
Shenandoah (Tall Ship) - 156.800
C.G. 41320 - 157.050
C.G. 41363 - 157.100
C.G. 41418 - 156.800
C.G. 41441 - 157.050

Our next report comes from Bill (CT.-038) with a list of Connecticut Marine Listings.

156.800,156.900 - KQA-415 - Tilcon-Warren - Branford,Ct.
156.450,156.800 - KXJ-686 - Riverside Marina - Bridgeport,Ct.
156.650,156.800 - KMD-253 - City of Bridgeport,Ct.
156.425,156.800 - KXR-928 - Clinton Marine Assn. - Clinton,Ct.
156.425,156.800 - KZV-716 - Cedar Island Marina - Clinton,Ct.
156.650,156.800 - KXR-913 - State of Connecticut - East Haddam,Ct.
156.450,156.800 - KMB-826 - Shore & Country Club - East Norwalk,Ct.
156.450,156.800 - KZN-519 - Essex Island Marina - Essex,Ct.
156.425,156.800 - KAF-349 - Flotiaal 77 Corp. - Fairfield,Ct.
156.325,156.800 - WRD-602 - Town of Greenwich,Ct.
156.425,156.800 - KMD-256 - Greenwich Cove Marina - Greenwich,Ct.
156.450,156.800 - KXE-305 - Electrocom Inc. - Groton,Ct.
156.575,156.800 - KBK-369 - Shennecosset Yacht Club - Groton,Ct.
161.600 - KBK-369 - Shennecosset Yacht Club - Groton,Ct.
156.650,156.800 - KJB-289 - National R/R Passenger - Groton,Ct.
156.800,156.975 - WOT-553 - White Stallion Enterprises - Groton,Ct.
156.800,161.850 - KWB-437 - Great Eastern Communications - Groton,Ct.
161.900 - KWB-437 - Great Eastern Communications - Groton,Ct.
156.350,156.800 - WXZ-259 - Mary B. Fishing Inc. - Groton Long,Ct.
156.425,156.800 - KZV-682 - Milford Yacht Club - Milford,Ct.
156.800 - KLU-787 - Liberty Communications - Monroe,Ct.
156.350,156.450 - KUF-778 - Mystic Seaport Inc. - Mystic,Ct.
156.800 - KUF-778 - Mystic Seaport Inc. - Mystic,Ct.
156.450,156.675 - KZV-677 - Mystic Marine Railway - Mystic,Ct.
156.800 - KZV-677 - Mystic Marine Railway - Mystic,Ct.
156.450,156.800 - KYU-621 - Northern Engineering - Mystic,Ct.
156.650,156.800 - KJA-842 - Northeast Corridor - Mystic,Ct.
156.650,156.800 - KXR-912 - State of Connecticut - Mystic,Ct.
156.800,156.950 - KEE-234 - Red Star Towing - New Haven,Ct.
156.800,156.950 - KFN-381 - Tallmadge Brothers - New Haven,Ct.
156.800,156.950 - KET-309 - Red Star Marine Services - New Haven,Ct.
156.800,156.950 - WXZ-576 - Gulf Oil - New Haven,Ct.
156.425,156.450 - KTR-849 - Burrs Yacht Club - New London,Ct.
156.800 - KTR-849 - Burrs Yacht Club - New London,Ct.
156.800,156.975 - KXR-984 - Nelseco Navigation - New London,Ct.
156.350,156.800 - KJA-422 - Harold W.Trueblood - Niantic,Ct.
156.650,156.800 - KGA-511 - National R/R Passenger - Niantic,Ct.
156.650,156.800 - KXR-911 - State of Connecticut - Niantic,Ct.
156.350,156.800 - KFN-687 - B.Frathbun & Sons - Noank,Ct.
156.450,156.800 - KLU-687 - Noank Shipyard - Noank,Ct.
156.800,157.025 - KMC-963 - Remysen Inc. - Noank,Ct.
156.800,156.900 - KIL-916 - George F.Glas - North Stonington,Ct.
156.450,156.800 - KXR-999 - Bolt Associsates - Norwalk,Ct.
156.650,156.800 - KJB-293 - National R/R Passenger - Old Lyme,Ct.
156.450,156.800 - KAQ-386 - Black Swan Marine Co. - Old Saybrook,Ct.
156.425,156.800 - KGA-376 - Greenhaven Marina - Pawcatuck,Ct.
156.450,156.800 - KZV-611 - Rowayton Marine Works - Rowayton,Ct.
156.450,156.800 - KZV-668 - Connecticut Marine - Rowayton,Ct.
156.450,156.800 - KQU-372 - Rex Marine Center - South Norwalk,Ct.
156.450,156.800 - KXS-241 - Maritronics Co. - South Norwalk,Ct.
156.800,156.975 - KZK-414 - Tallmadge Brothers - South Norwalk,Ct.
156.425,156.800 - WXZ-281 - Pequot Yacht Club - Southport,Ct.
156.450,156.800 - KIZ-532 - Yacht Haven Inc. - Stamford,Ct.
156.450,156.800 - KZN-542 - Electra Yacht Club - Stamford,Ct.
156.475 - KZN-542 - Electra Yacht Club - Stamford,Ct.
156.450,156.800 - WRV-518 - Stamford Yacht Club - Stamford,Ct.
156.450,156.800 - KEB-204 - Dodson Boat Yard - Stonington,Ct.
156.800,156.900 - WQA-843 - Wilcox Marine Supply - Stonington,Ct.
156.650,156.800 - KXJ-695 - State of Connecticut - Stratford,Ct.
156.800 - KLU-785 - Great Eastern Comm. - Stratford,Ct.
156.425,156.450 - KUZ-553 - Kenneth J.Reuben - Wallingford,Ct.
156.800 - KUZ-553 - Kenneth J.Reuben - Wallingford,Ct.
156.350,156.800 - KIY-768 - Capt. Johns Sport Fishing - Waterford,Ct.
156.800,156.975 - KWB-454 - Sportsmans Boating Club - Waterford,Ct.
156.450,156.800 - KWS-656 - Professional Sea Services - West Haven,Ct.
156.950 - KWS-656 - Professional Sea Services - West Haven,Ct.
156.450,156.800 - WXZ-389 - Mystic Shipyard - West Mystic,Ct.
156.425,156.800 - KTA-446 - Cedar Point Yacht Club - Westport,Ct.

OTHER MARINE LISTINGS:

156.425,156.450,156.800 - KWS-640 --- Kenneth J.Reuben
156.450,156.800,156.900 - KAE-922 --- Union Carbide
156.450,156.800 - KU-3489 --- Wyatt Inc.
156.450,156.475,156.800 - KXS-225 --- Maritronics Co.
156.450,156.800 - WRD-572 --- Sealand Industrial Services
156.475,156.800 - KU-6033-35 - Penn Central
156.725,156.800,156.975 - KU-4058 - Ocean Surveys Inc.
156.800,156.975 - KU-3863 - Sea & Land Communications
156.800,156.950 - KU-9781 - New Haven-Bridgeport
156.350,156.425,156.800 - KGA-348 - Coastal Marine Food
156.450,156.800 - KA-4981 - Mystic Seaport Inc.

HIGH FREQUENCY (SSB) MARINE LISTINGS:

Agtek International Inc. - New Canaan,Ct. - KEB-489
4126.4 kc. 4145.0 kc. 8292.5 kc. 8295.6 kc.
12430.6 kc. 12436.8 kc. 16588.5 kc. 16591.6 kc.
22125.4 kc. 22131.6 kc.
Electra Yacht Club - Stamford,Ct. - KZN-542
4126.4 kc. 8292.5 kc. 12436.8 kc.

Well that's about it for this month. Next month column will hold lots more good information. Lets keep the information coming. Remember this column is only as good as your input. Do you want to see a Marine Frequency Profile on your area .....ASK..... 73's to next month.

• NEW MEMBERS LIST •

AZ 060 LaValley, Ernest F: 3256 E. Masterson Pl, Tucson, AZ 85706
CAED007 Bacoccini, Richard: 4693 Church St, El Dorado, CA 95623
CALA593 O'Conner, Ray: 7327 Farmdale Ave, N. Hollywood, CA 91605
CALA594 Kundurazieff, Kurt: 2439 Merrwood St, Pomona, CA 91767
CALA595 Weber, Keith: 2018 Las Vegas, #12, Pomona, CA 91767
CASR024 Adams, Perry: P.O. Box 13390 UCSB, Santa Barbara, CA 93107
CANA113 Pearce, William: 339 Rue Claude, Lachenaie, Quebec, Canada J6W 3T8
IA 049 Roth, Ronald: 1132 24th St, W. Des Moines, IA 50265
IN 087 Smith, Jerry: 3709 Oakhurst Dr, Kokomo, IN 46902
MD 103 Weber, K.T. Jr, RMI, USN: NAVRADTRANSPAC, Annapolis, MD 21402
NJ 194 Redlus, Jeffrey: 2 Mulberry Ln, Freehold, NJ 07728
OH 162 Meyers, John: 5661 Overbrooke Rd, Dayton, OH 45440
SC 024 Lynch, Stephen: 202 Palmetto St, Moncks Corner, SC 29461
TN 027 Deneka, Ray: 4704 Cedar Rose Dr, Millington, TN 38053
WA 062 (Georgia-Pacific Corp) P.O. Box 1236, Bellingham, WA 98227

Season's Greetings

It is now that season of the year where one starts to think of gifts to be given or to be hinted for. Below are several scanner oriented items that would make for great reading during the long winter months. RCMA members were instrumental in the creation of each of these items and in the opinion of this writer well worth the money.

A BOOK:

Tab Book #1190 "The Complete Action Guide to Scanners & Monitors" by Louis A. Smith II PA 198. Complete coverage of the scanning environment. Beginners and advanced scanner buffs can learn a great deal from this publication. $9.95

MONTHLY PUBLICATIONS:

"POPULAR COMMUNICATIONS" Edited by Tom Kneitel NY 154 is a newsstand quality magazine which specializes in all aspects of radio. The major stories are those of historical significance of the early days of radio that you can't find any where else. Many of the writers of S9 and CB magazine also contribute as well as some other RCMA members. Pop Com is well worth the $14.00/year. Popular Communications, 76 North Broadway, Hicksville, NY 11801

"MONITORING TIMES" By Bob Grove NC 006 is a tabloid type publication that concentrates more on current radio activity including computers. The tabloid format allows information to go press and be quickly distributed. Good reading for $10.50/year. Grove Enterprises Inc. 140 Dog Branch Road, Brasstown, NC 28902

FREQUENCY LISTINGS

"POLICE CALL" By Gene Hughes CALA 006 covers the public safety areas of fire, police, ambulance, paramedic, government etc. plus city/county/state/federal. The publication that got the hobby started. Gene has a crew at work in Gettsburg PA where the FCC posts all changes and he incorporates these changes each year. Covers the entire USA and available most every where including Radio Shack stores

"FOX SCANNER RADIO LISTINGS" By Norman H. Schrein OH 145 is a regional publication, but if it covers your region it is very good. Extensive listings including business and commercial users as well as public safety. The contents are computer print outs sorted about every way. Once you learn how to read it there is a lot of information to be had. $9.95 To see if there is one for your area call toll free 1-800-543-7892

"SCANNER FREQUENCY DIRECTORY for Northwestern Ohio & South eastern Michigan" by Daryll Symington OH 149 covers only 16 counties around Detroit, but does it well for $5.95. He includes a tag to indicate the frequency is confirmed and not just taken from an FCC file. Midwest Software Services, PO Box 399, Holland OH 43528

"SCANNER MASTER New York Metro/Northeast New Jersey Guide" by Rick Prelinger CASF002 is perhaps the best of all scanner guides in publication. It has maps, detail in depth, and covers all aspect of scanning for this area. $12.95 + $1.50 shipping from Scanner Master Publishing, PO Box 428, Newton Highlands, MA 02161. This is one of many publications of Richard Barnetts group and is really a quality publication.

BECOME A TALKER

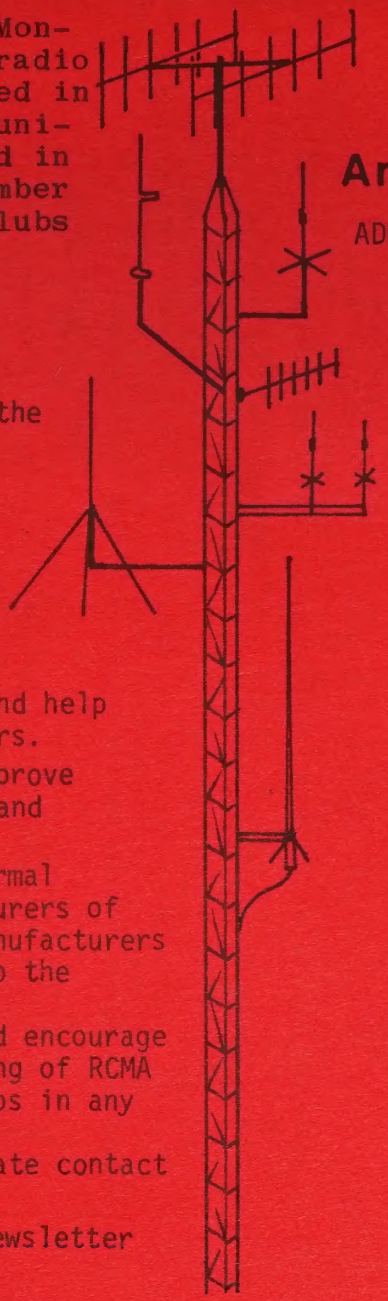
WEST COAST RADIO SCHOOL headed by Gordon West CAOR022 will make you an amateur radio operator and you too can be monitored. The FCC has published all the questions for each examination and Gordon has tied each question to the appropriate FCC regulation. His tapes will cover the code you need to learn and the correct operating procedures. Taking his class by mail will not be as nice as taking it in person, but it may be the best thing that will ever happen to you. This is a present that will last for a long time, but it will involve you doing a little work also. $64.00 for the beginners course. Gordon West Radio School, 2414 College Dr, Costa Mesa, CA 92626

J.R. Clark CAOR078

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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